

SPECIFICATIONS

These are the current Hexanes + extended fractions that are available through Red Ball TGS, and they are formulated based on GPA methodology. Concentrations are typical values, but may change from lot to lot. Custom Hexanes + fractions are also available, but will be handled as a specialty request and will be priced accordingly.

Hexanes + composition of 95+% Hexane.

COMPONENT	MOLE	WEIGHT	VOLUME
3-Methylpentane	0.037%	0.037%	0.037%
2,2-Dimethylpentane	0.001%	0.001%	0.001%
2,4-Dimethylpentane	0.001%	0.001%	0.001%
Methylcyclopentane	1.378%	1.346%	1.195%
n-Hexane	98.584%	98.616%	98.767%

HX-IL19

Hexanes + Extended composition, in accordance with GPA 2261.

COMPONENT	MOLE	WEIGHT	VOLUME
n-Hexane	47.61%	42.75%	43.87%
n-Heptane	35.16%	36.73%	36.35%
n-Octane	17.23%	20.52%	19.78%

HX+EXE-CC05

Heptanes + composition, in accordance with GPA 2177.

COMPONENT	MOLE	WEIGHT	VOLUME
n- Heptane	47.03%	42.81%	43.64%
n- Octane	35.37%	36.69%	36.44%
n-Nonane	17.60%	20.50%	19.92%

HP+F125

Hexanes + C9 Extended composition, in accordance with GPA 2177.

COMPONENT	MOLE	WEIGHT	VOLUME
n-Hexane	37.99%	32.54%	33.73%
n-Heptane	31.01%	30.88%	30.89%
n-Octane	21.00%	23.84%	23.23%
n-Nonane	10.00%	12.75%	12.15%

HX+EXT9-GG27

Hexanes + C10 Extended composition, in accordance with GPA 2286.

COMPONENT	MOLE	WEIGHT	VOLUME
Cyclopentane	2.388%	1.869%	1.760%
2,2-Dimethylbutane (Neohexane)	0.573%	0.551%	0.604%
2-Methylpentane	15.382%	14.793%	16.106%
3-Methylpentane	9.775%	9.401%	10.061%
Methylcyclopentane	10.005%	9.398%	8.919%
Benzene	4.749%	4.140%	3.352%
Cyclohexane	8.851%	8.313%	7.600%
n-Hexane	20.593%	19.808%	21.205%
2,4-Dimethylpentane	0.134%	0.150%	0.159%
2,3-Dimethylpentane	0.145%	0.162%	0.165%
2-Methylhexane *	0.011%	0.013%	0.013%
3-Methylhexane	0.298%	0.334%	0.345%
Methylcyclohexane	5.777%	6.330%	5.843%
1,1-Dimethylcyclopentane	0.028%	0.031%	0.029%
Toluene	3.340%	3.435%	2.809%
n-Heptane	11.527%	12.890%	13.315%
2,4-Dimethylhexane	0.075%	0.096%	0.098%
2,2,4-Trimethylpentane (Isooctane)	0.389%	0.495%	0.507%
trans-1,2-Dimethylcyclohexane **	0.164%	0.205%	0.188%
cis-1,2-Dimethylcyclohexane **	0.196%	0.245%	0.219%
3-Methylheptane	0.0374%	0.0474%	0.0480%
trans-1,2-Dimethylcyclohexane*	0.1768%	0.2201%	0.2028%

COMPONENT	MOLE	WEIGHT	VOLUME
n-Octane	1.9930%	2.5257%	2.5559%
cis-1,2-Dimethylcyclohexane*	0.2113%	0.2631%	0.2362%
Ethylcyclohexane	0.283%	0.354%	0.319%
Ethyl Benzene	0.245%	0.290%	0.238%
m-Xylene	0.440%	0.522%	0.429%
p-Xylene	0.404%	0.479%	0.396%
o-Xylene	0.204%	0.241%	0.195%
Cyclooctane	0.177%	0.222%	0.189%
n-Octane	1.998%	2.547%	2.563%
Isopropyl Benzene (Cumene)	0.232%	0.311%	0.256%
n-Propylbenzene	0.150%	0.201%	0.166%
1,3,5-Trimethylbenzene	0.114%	0.153%	0.126%
1,2,4-Trimethylbenzene	0.079%	0.106%	0.086%
1,2,3-Trimethylbenzene	0.040%	0.053%	0.042%
n-Nonane	0.354%	0.506%	0.498%
tert-Butylbenzene	0.066%	0.098%	0.081%
tert-Butylcyclohexane	0.066%	0.103%	0.088%
Isobutylbenzene	0.144%	0.216%	0.180%
sec-Butylbenzene	0.034%	0.050%	0.042%
n-Butylcyclohexane	0.169%	0.265%	0.235%
n-Butylbenzene	0.142%	0.213%	0.176%

*From mixed isomers **Impurities from other components **HX+C10-FE15**

Hexanes + C12 Extended composition, in accordance with GPA 2186.

COMPONENT	MOLE	WEIGHT	VOLUME
Isopentane*	0.0252%	0.0202%	0.0231%
n-Pentane*	0.0557%	0.0447%	0.0506%
2,2-Dimethylbutane (Neohexane)	0.4225%	0.5364%	0.5510%
Cyclopentane	2.5665%	2.0005%	1.8936%
2-Methylpentane	14.8662%	14.2381%	15.5845%
3-Methylpentane	9.4645%	9.0646%	9.7530%
n-Hexane	19.8044%	18.9676%	20.4155%
Methylcyclopentane	9.7799%	9.1475%	8.7281%
2,4-Dimethylpentane	0.1114%	0.1241%	0.1320%
Benzene	5.6496%	4.9046%	3.9931%
Cyclohexane	8.6942%	8.1321%	7.4748%
1,1-Dimethylcyclopentane	0.0120%	0.0131%	0.0124%
2,3-Dimethylpentane	0.1449%	0.1614%	0.1659%
2-Methylhexane	0.0295%	0.0328%	0.0346%
3-Methylhexane	0.3102%	0.3454%	0.3589%
2,2,4-Trimethylpentane (Isooctane)	0.4010%	0.5091%	0.5239%
n-Heptane	11.1401%	12.4061%	12.8842%
Methylcyclohexane	5.8095%	6.3395%	5.8831%
2,4-Dimethylhexane	0.0782%	0.0993%	0.1018%
Toluene	3.8535%	3.9460%	3.2449%
3-Methylheptane	0.0370%	0.0469%	0.0475%
trans-1,2-Dimethylcyclohexane*	0.1759%	0.2193%	0.2020%
n-Octane	1.9816%	2.5157%	2.5449%

COMPONENT	MOLE	WEIGHT	VOLUME
cis-1,2-Dimethylcyclohexane*	0.2101%	0.2620%	0.2352%
Ethylcyclohexane	0.3019%	0.3765%	0.3415%
Ethyl Benzene	0.2825%	0.3333%	0.2741%
m-Xylene	0.5094%	0.6010%	0.4969%
p-Xylene	0.4457%	0.5259%	0.4366%
o-Xylene	0.2357%	0.2781%	0.2258%
n-Nonane	0.3647%	0.5199%	0.5145%
Isopropyl Benzene	0.2514%	0.3358%	0.2780%
Cyclooctane	0.1946%	0.2427%	0.2080%
n-Propylbenzene	0.1720%	0.2298%	0.1901%
1,3,5-Trimethylbenzene	0.1275%	0.1703%	0.1406%
1,2,4-Trimethylbenzene	0.0855%	0.1143%	0.0932%
tert-Butylcyclohexane	0.0713%	0.1111%	0.0956%
tert-Butylbenzene	0.0767%	0.1144%	0.0944%
n-Decane	0.2973%	0.4702%	0.4575%
Isobutylbenzene	0.3213%	0.4793%	0.4015%
sec-Butylbenzene	0.0387%	0.0577%	0.0478%
1,2,3-Trimethylbenzene	0.0454%	0.0606%	0.0484%
n-Butylcyclohexane	0.1863%	0.2904%	0.2597%
n-Butylbenzene	0.1585%	0.2364%	0.1961%
n-Undecane	0.1429%	0.2483%	0.2398%
n-Dodecane	0.0671%	0.1271%	0.1213%

*From mixed isomers **Impurities from other components **HX+C12-IF13**

Hexanes + C14 Extended composition, in accordance with GPA 2186.

COMPONENT	MOLE	WEIGHT	VOLUME
Isopentane*	0.0243%	0.0195%	0.0223%
n-Pentane*	0.0548%	0.0439%	0.0497%
2,2-Dimethylbutane (Neohexane)	0.4176%	0.5292%	0.5437%
Cyclopentane	2.5329%	1.9708%	1.8661%
2-Methylpentane	14.7656%	14.1169%	15.4570%
3-Methylpentane	9.4140%	9.0004%	9.6872%
n-Hexane	19.7724%	18.9037%	20.3535%
Methylcyclopentane	9.7720%	9.1241%	8.7086%
2,4-Dimethylpentane	0.1106%	0.1230%	0.1308%
Benzene	5.6372%	4.8852%	3.9787%
Cyclohexane	8.6985%	8.1218%	7.4678%
1,1-Dimethylcyclopentane	0.0120%	0.0130%	0.0124%
2,3-Dimethylpentane	0.1454%	0.1617%	0.1663%
2-Methylhexane	0.0295%	0.0328%	0.0345%
3-Methylhexane	0.3114%	0.3461%	0.3598%
2,2,4-Trimethylpentane (Isooctane)	0.4027%	0.5104%	0.5255%
n-Heptane	11.1812%	12.4299%	12.9132%
Methylcyclohexane	5.8307%	6.3515%	5.9862%
2,4-Dimethylhexane	0.0787%	0.0997%	0.1023%
Toluene	3.8674%	3.9533%	3.2520%
3-Methylheptane	0.0374%	0.0474%	0.0480%
trans-1,2-Dimethylcyclohexane*	0.1768%	0.2201%	0.2028%
n-Octane	1.9930%	2.5257%	2.5559%
cis-1,2-Dimethylcyclohexane*	0.2113%	0.2631%	0.2362%

COMPONENT	MOLE	WEIGHT	VOLUME
Ethylcyclohexane	0.3040%	0.3785%	0.3434%
Ethyl Benzene	0.2846%	0.3352%	0.2758%
m-Xylene	0.5112%	0.6021%	0.4979%
p-Xylene	0.4487%	0.5285%	0.4389%
o-Xylene	0.2361%	0.2781%	0.2258%
n-Nonane	0.3658%	0.5205%	0.5153%
Isopropyl Benzene	0.2531%	0.3374%	0.2794%
Cyclooctane	0.1954%	0.2433%	0.2086%
n-Propylbenzene	0.1734%	0.2312%	0.1914%
1,3,5-Trimethylbenzene	0.1278%	0.1704%	0.1407%
1,2,4-Trimethylbenzene	0.0859%	0.1146%	0.0935%
tert-Butylcyclohexane	0.0717%	0.1115%	0.0959%
tert-Butylbenzene	0.0772%	0.1150%	0.0949%
n-Decane	0.3006%	0.4745%	0.4619%
Isobutylbenzene	0.3185%	0.4743%	0.3975%
sec-Butylbenzene	0.0389%	0.0579%	0.0480%
1,2,3-Trimethylbenzene	0.0454%	0.0606%	0.0484%
n-Butylcyclohexane	0.1870%	0.2910%	0.2603%
n-Butylbenzene	0.1592%	0.2370%	0.1967%
n-Undecane	0.1440%	0.2498%	0.2413%
n-Dodecane	0.0687%	0.1299%	0.1241%
n-Tridecane	0.0649%	0.1327%	0.1252%
n-Tetradecane	0.0604%	0.1328%	0.1248%

*From mixed isomers **Impurities from other components HX+C14-IF04