(Z)-4,4-Dimethylhex-2-ene

Other names: 2-Hexene, 4,4-dimethyl, cis
Inchi: InChI=1S/C8H16/c1-5-7-8(3,4)6-2/h5,7H,6H2,1-4H3/b7-5-
InchiKey: OQEVAISXHCRQGF-ALCCZGGFSA-N
Formula: C8H16
SMILES: CC=CC(C)(C)CC
Mol. weight [g/mol]: 112.21

Physical Properties

Property code	Value	Unit	Source
gf	99.54	kJ/mol	Joback Method
hf	-99.98	kJ/mol	Joback Method
hfus	9.26	kJ/mol	Joback Method
hvap	32.06	kJ/mol	Joback Method
log10ws	-2.78		Crippen Method
logp	2.999		Crippen Method
mcvol	119.280	ml/mol	McGowan Method
pc	2726.86	kPa	Joback Method
rinpol	745.60		NIST Webbook
rinpol	744.00		NIST Webbook
rinpol	753.50		NIST Webbook
tb	383.37	K	Joback Method
tc	566.77	K	Joback Method
tf	177.26	K	Joback Method
vc	0.453	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	219.13	J/mol×K	383.37	Joback Method
cpg	233.64	J/mol×K	413.94	Joback Method
cpg	247.38	J/mol×K	444.50	Joback Method
cpg	260.39	J/mol×K	475.07	Joback Method
cpg	272.68	J/mol×K	505.64	Joback Method
cpg	284.31	J/mol×K	536.21	Joback Method

cpg	295.30	J/mol×K	566.77	Joback Method
dvisc	0.0110015	Pa×s	177.26	Joback Method
dvisc	0.0034054	Pa×s	211.61	Joback Method
dvisc	0.0014626	Pa×s	245.96	Joback Method
dvisc	0.0007728	Pa×s	280.31	Joback Method
dvisc	0.0004693	Pa×s	314.67	Joback Method
dvisc	0.0003144	Pa×s	349.02	Joback Method
dvisc	0.0002263	Pa×s	383.37	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R293164&Units=SI

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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