Cyclohexane, (3-cyclopentylpropyl)-

Other names: Propane, 1-cyclohexyl-3-cyclopentyl-
1-Cyclohexyl-3-cyclopentylpropane
Inchi: InChI=1S/C14H26/c1-2-7-13(8-3-1)11-6-12-14-9-4-5-10-14/h13-14H,1-12H2
InchiKey: CPBZARXQRZTYGI-UHFFFAOYSA-N
Formula: C14H26
SMILES: C1CCC(CCCC2CCCC2)CC1
Mol. weight [g/mol]: 194.36
CAS: 2883-07-0

Physical Properties

Property code	Value	Unit	Source
gf	128.00	kJ/mol	Joback Method
hf	-217.49	kJ/mol	Joback Method
hfus	17.79	kJ/mol	Joback Method
hvap	47.44	kJ/mol	Joback Method
log10ws	-4.99		Crippen Method
logp	4.927		Crippen Method
mcvol	186.400	ml/mol	McGowan Method
pc	2110.00	kPa	Joback Method
tb	554.55	K	Joback Method
tc	770.38	K	Joback Method
tf	248.55 ± 0.50	K	NIST Webbook
tf	248.60 ± 1.00	K	NIST Webbook
vc	0.694	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	619.07	J/mol×K	770.38	Joback Method
cpg	488.37	J/mol×K	554.55	Joback Method
cpg	513.74	J/mol×K	590.52	Joback Method
cpg	537.60	J/mol×K	626.49	Joback Method
cpg	560.01	J/mol×K	662.47	Joback Method
cpg	581.02	J/mol×K	698.44	Joback Method

cpg	600.69	J/mol×K	734.41	Joback Method
dvisc	0.0002722	Pa×s	554.55	Joback Method
dvisc	0.0070836	Pa×s	265.82	Joback Method
dvisc	0.0027138	Pa×s	313.94	Joback Method
dvisc	0.0013417	Pa×s	362.06	Joback Method
dvisc	0.0007826	Pa×s	410.18	Joback Method
dvisc	0.0005111	Pa×s	458.31	Joback Method
dvisc	0.0003620	Pa×s	506.43	Joback Method
hvapt	64.50	kJ/mol	387.00	NIST Webbook

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C2883070&Units=SI
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

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
hvapt: Enthalpy of vaporization at a given temperature
log10ws: Log10 of Water solubility in mol/l
logp: Octanol/Water partition coefficient
mcvol: McGowan's characteristic volume
pc: Critical Pressure
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume