Cyclohexane, 1,2,3,4,5,6-hexamethyl

Inchi: InChI=1S/C12H24/c1-7-8(2)10(4)12(6)11(5)9(7)3/h7-12H,1-6H3
InchiKey: CRZVDNMIWUHMQA-UHFFFAOYSA-N
Formula: C12H24
SMILES: CC1C(C)C(C)C(C)C(C)C1C
Mol. weight [g/mol]: 168.32

Physical Properties

Property code	Value	Unit	Source
gf	36.06	kJ/mol	Joback Method
hf	-338.39	kJ/mol	Joback Method
hfus	24.03	kJ/mol	Joback Method
hvap	41.19	kJ/mol	Joback Method
log10ws	-3.29		Crippen Method
logp	3.817		Crippen Method
mcvol	169.080	ml/mol	McGowan Method
pc	1841.99	kPa	Joback Method
rinpol	1185.00		NIST Webbook
rinpol	1217.00		NIST Webbook
rinpol	1192.00		NIST Webbook
rinpol	1155.00		NIST Webbook
tb	470.16	K	Joback Method
tc	660.92	K	Joback Method
tf	211.18	K	Joback Method
vc	0.635	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	393.31	J/mol×K	470.16	Joback Method
cpg	497.86	J/mol×K	629.12	Joback Method
cpg	478.70	J/mol×K	597.33	Joback Method
cpg	458.67	J/mol×K	565.54	Joback Method
cpg	437.76	J/mol×K	533.75	Joback Method
cpg	415.97	J/mol×K	501.95	Joback Method

cpg	516.15	J/mol×K	660.92	Joback Method
dvisc	0.0002773	Pa×s	470.16	Joback Method
dvisc	0.0002975	Pa×s	427.00	Joback Method
dvisc	0.0003241	Pa×s	383.83	Joback Method
dvisc	0.0003610	Pa×s	340.67	Joback Method
dvisc	0.0004148	Pa×s	297.51	Joback Method
dvisc	0.0004996	Pa×s	254.34	Joback Method
dvisc	0.0006493	Pa×s	211.18	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=R417&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

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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