

Dicyclohexylmethanol

Other names:	Cyclohexanemethanol, «alpha»-cyclohexyl-Dicyclohexylcarbinol «alpha»-cyclohexylcyclohexanemethanol
Inchi:	InChI=1S/C13H24O/c14-13(11-7-3-1-4-8-11)12-9-5-2-6-10-12/h11-14H,1-10H2
InchiKey:	DEFUSPNGFCCTEU-UHFFFAOYSA-N
Formula:	C13H24O
SMILES:	OC(C1CCCCC1)C1CCCCC1
Mol. weight [g/mol]:	196.33
CAS:	4453-82-1

Physical Properties

Property code	Value	Unit	Source
gf	-31.78	kJ/mol	Joback Method
hf	-360.52	kJ/mol	Joback Method
hfus	13.66	kJ/mol	Joback Method
hvap	61.68	kJ/mol	Joback Method
log10ws	-3.95		Crippen Method
logp	3.508		Crippen Method
mcvol	178.180	ml/mol	McGowan Method
pc	2613.74	kPa	Joback Method
tb	627.68	K	Joback Method
tc	842.30	K	Joback Method
tf	296.85	K	Joback Method
vc	0.642	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	515.59	J/mol×K	627.68	Joback Method
cpg	610.19	J/mol×K	806.53	Joback Method
cpg	593.83	J/mol×K	770.76	Joback Method
cpg	576.23	J/mol×K	734.99	Joback Method
cpg	557.36	J/mol×K	699.22	Joback Method
cpg	537.16	J/mol×K	663.45	Joback Method

cpg	625.37	J/molxK	842.30	Joback Method
dvisc	0.0000658	Paxs	627.68	Joback Method
dvisc	0.0001132	Paxs	572.54	Joback Method
dvisc	0.0002188	Paxs	517.40	Joback Method
dvisc	0.0004949	Paxs	462.27	Joback Method
dvisc	0.0013963	Paxs	407.13	Joback Method
dvisc	0.0054524	Paxs	351.99	Joback Method
dvisc	0.0353172	Paxs	296.85	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	427.20	K	1.60	NIST Webbook

Sources

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=C4453821&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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
tb:	Normal Boiling Point Temperature

tbrp: Boiling point at reduced pressure
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume

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