Tricyclohexylmethanol

Other names: Cyclohexanemethanol, «alpha»,«alpha»-dicyclohexyl-
Inchi: InChI=1S/C19H34O/c20-19(16-10-4-1-5-11-16,17-12-6-2-7-13-17)18-14-8-3-9-15-18/h16
InchiKey: MRGVKQSSSOCONZ-UHFFFAOYSA-N
Formula: C19H34O
SMILES: OC(C1CCCCC1)(C1CCCCC1)C1CCCCC1
Mol. weight [g/mol]: 278.47
CAS: 17687-74-0

Physical Properties

Property code	Value	Unit	Source
gf	48.47	kJ/mol	Joback Method
hf	-433.51	kJ/mol	Joback Method
hfus	17.14	kJ/mol	Joback Method
hvap	74.56	kJ/mol	Joback Method
log10ws	-6.11		Crippen Method
logp	5.458		Crippen Method
mcvol	251.860	ml/mol	McGowan Method
pc	1864.33	kPa	Joback Method
tb	781.72	K	Joback Method
tc	1014.51	K	Joback Method
tf	366.00 ± 2.00	K	NIST Webbook
vc	0.906	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	861.17	J/mol×K	781.72	Joback Method
cpg	964.89	J/mol×K	975.71	Joback Method
cpg	947.63	J/mol×K	936.91	Joback Method
cpg	928.74	J/mol×K	898.12	Joback Method
cpg	908.11	J/mol×K	859.32	Joback Method
cpg	885.62	J/mol×K	820.52	Joback Method
cpg	980.64	J/mol×K	1014.51	Joback Method
dvisc	0.0000190	Pa×s	781.72	Joback Method

dvisc	0.0000319	Pa×s	716.31	Joback Method
dvisc	0.0000595	Pa×s	650.90	Joback Method
dvisc	0.0001273	Pa×s	585.50	Joback Method
dvisc	0.0003297	Pa×s	520.09	Joback Method
dvisc	0.0011236	Pa×s	454.68	Joback Method
dvisc	0.0057811	Pa×s	389.27	Joback Method

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=C17687740&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume