neo-Thujan-3-ol

Other names: neo-3-thujanol
Neothujol
3-neo-Thujanol
Inchi: InChI=1S/C10H18O/c1-6(2)10-4-8(10)7(3)9(11)5-10/h6-9,11H,4-5H2,1-3H3/t7-,8-,9-,10+
InchiKey: DZVXRFMREAADPP-KYXWUPHJSA-N
Formula: C10H18O
SMILES: CC1C(O)CC2(C(C)C)CC12
Mol. weight [g/mol]: 154.25
CAS: 21653-18-9

Physical Properties

Property code	Value	Unit	Source
gf	-5.35	kJ/mol	Joback Method
hf	-287.08	kJ/mol	Joback Method
hfus	14.34	kJ/mol	Joback Method
hvap	52.20	kJ/mol	Joback Method
log10ws	-2.21		Crippen Method
logp	2.049		Crippen Method
mcvol	135.910	ml/mol	McGowan Method
pc	2956.90	kPa	Joback Method
rinpol	1130.00		NIST Webbook
rinpol	1138.00		NIST Webbook
rinpol	1134.00		NIST Webbook
rinpol	1151.00		NIST Webbook
rinpol	1149.00		NIST Webbook
rinpol	1149.00		NIST Webbook
rinpol	1148.00		NIST Webbook
rinpol	1134.00		NIST Webbook
rinpol	1149.00		NIST Webbook
ripol	1573.00		NIST Webbook
ripol	1620.00		NIST Webbook
tb	524.32	K	Joback Method
tc	714.97	K	Joback Method
tf	299.58	K	Joback Method
vc	0.518	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	354.41	J/mol×K	524.32	Joback Method
cpg	370.07	J/mol×K	556.10	Joback Method
cpg	384.74	J/mol×K	587.87	Joback Method
cpg	398.54	J/mol×K	619.65	Joback Method
cpg	411.57	J/mol×K	651.42	Joback Method
cpg	423.94	J/mol×K	683.20	Joback Method
cpg	435.75	J/mol×K	714.97	Joback Method

Sources

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=C21653189&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume