Cyclopentanol,trans-2-(dimethylamino)-

Inchi: InChI=1S/C7H15NO/c1-8(2)6-4-3-5-7(6)9/h6-7,9H,3-5H2,1-2H3/t6-,7-/m0/s1
InchiKey: RXMKVUFGNZHQEE-BQBZGAKWSA-N
Formula: C7H15NO
SMILES: CN(C)C1CCCC1O
Mol. weight [g/mol]: 129.20
CAS: 18760-79-7

Physical Properties

Property code	Value	Unit	Source
gf	10.86	kJ/mol	Joback Method
hf	-232.37	kJ/mol	Joback Method
hfus	16.00	kJ/mol	Joback Method
hvap	49.85	kJ/mol	Joback Method
ie	7.45	eV	NIST Webbook
log10ws	-0.70		Crippen Method
logp	0.461		Crippen Method
mcvol	114.480	ml/mol	McGowan Method
pc	3659.77	kPa	Joback Method
tb	474.79	K	Joback Method
tc	658.16	K	Joback Method
tf	268.60	K	Joback Method
vc	0.405	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	264.09	J/mol×K	474.79	Joback Method
cpg	278.31	J/mol×K	505.35	Joback Method
cpg	291.84	J/mol×K	535.91	Joback Method
cpg	304.69	J/mol×K	566.48	Joback Method
cpg	316.89	J/mol×K	597.04	Joback Method
cpg	328.45	J/mol×K	627.60	Joback Method
cpg	339.40	J/mol×K	658.16	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C18760797&Units=SI

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
ie:	Ionization energy
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