trans-(2,3,3a,7a-Tetrahydro-1H-indene-4-yl) methanol

Inchi: InChI=1S/C10H14O/c11-7-9-5-1-3-8-4-2-6-10(8)9/h1,3,5,8,10-11H,2,4,6-7H2/t8-,10-/m0/

InchiKey: ZNALYRSQJJGLPK-WPRPVWTQSA-N

Formula: C10H14O

SMILES: OCC1=CC=CC2CCCC12

Mol. weight [g/mol]: 150.22

Physical Properties

Property code	Value	Unit	Source
gf	31.99	kJ/mol	Joback Method
hf	-170.75	kJ/mol	Joback Method
hfus	17.77	kJ/mol	Joback Method
hvap	56.12	kJ/mol	Joback Method
log10ws	-2.29		Crippen Method
logp	1.891		Crippen Method
mcvol	127.310	ml/mol	McGowan Method
pc	3484.76	kPa	Joback Method
rinpol	1299.00		NIST Webbook
ripol	2115.00		NIST Webbook
tb	549.97	K	Joback Method
tc	754.34	K	Joback Method
tf	302.64	K	Joback Method
vc	0.476	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	317.45	J/mol×K	549.97	Joback Method
cpg	382.24	J/mol×K	720.28	Joback Method
cpg	370.90	J/mol×K	686.22	Joback Method
cpg	358.80	J/mol×K	652.16	Joback Method
cpg	345.89	J/mol×K	618.09	Joback Method
cpg	332.12	J/mol×K	584.03	Joback Method
cpg	392.87	J/mol×K	754.34	Joback Method
dvisc	0.0002530	Pa×s	549.97	Joback Method

dvisc	0.0003570	Pa×s	508.75	Joback Method
dvisc	0.0005353	Pa×s	467.53	Joback Method
dvisc	0.0008681	Pa×s	426.31	Joback Method
dvisc	0.0015611	Pa×s	385.08	Joback Method
dvisc	0.0032317	Pa×s	343.86	Joback Method
dvisc	0.0081567	Pa×s	302.64	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R586768&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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