exo-Tricyclo[6,2,1,0(2,6)]decan-8-«alpha»-ol

Inchi: InChI=1S/C10H16O/c11-10-5-6-4-9(10)8-3-1-2-7(6)8/h6-11H,1-5H2/t6?,7-,8-,9?,10-/m0/s
InchiKey: FKZJBAXKHJIQDU-KNJCMARUSA-N
Formula: C10H16O
SMILES: OC1CC2CC1C1CCCC21
Mol. weight [g/mol]: 152.23

Physical Properties

Property code	Value	Unit	Source
gf	51.23	kJ/mol	Joback Method
hf	-230.40	kJ/mol	Joback Method
hfus	20.19	kJ/mol	Joback Method
hvap	53.83	kJ/mol	Joback Method
log10ws	-2.10		Crippen Method
logp	1.803		Crippen Method
mcvol	125.050	ml/mol	McGowan Method
pc	3314.37	kPa	Joback Method
rinpol	1296.00		NIST Webbook
rinpol	1296.00		NIST Webbook
ripol	1937.00		NIST Webbook
tb	535.53	K	Joback Method
tc	735.26	K	Joback Method
tf	305.10	K	Joback Method
vc	0.475	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	341.31	J/mol×K	535.53	Joback Method
cpg	358.46	J/mol×K	568.82	Joback Method
cpg	374.51	J/mol×K	602.11	Joback Method
cpg	389.55	J/mol×K	635.39	Joback Method
cpg	403.64	J/mol×K	668.68	Joback Method
cpg	416.86	J/mol×K	701.97	Joback Method
cpg	429.29	J/mol×K	735.26	Joback Method

dvisc	0.0053793	Pa×s	305.10	Joback Method
dvisc	0.0035397	Pa×s	343.50	Joback Method
dvisc	0.0025337	Pa×s	381.91	Joback Method
dvisc	0.0019279	Pa×s	420.31	Joback Method
dvisc	0.0015356	Pa×s	458.72	Joback Method
dvisc	0.0012669	Pa×s	497.12	Joback Method
dvisc	0.0010745	Pa×s	535.53	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R386375&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

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

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