Tricyclo[3.2.1.02,4]octan-8-ol,acetate,endo-syn-

Inchi: InChI=1S/C8H12O/c9-8-4-1-2-5(8)7-3-6(4)7/h4-9H,1-3H2/t4-,5-,6-,7+,8?/m0/s1
InchiKey: KKIDVQSXZVWGTL-CFRKSHFISA-N
Formula: C10H14O2
SMILES: OC1C2CCC1C1CC21
Mol. weight [g/mol]: 166.22
CAS: 32426-26-9

Physical Properties

Property code	Value	Unit	Source
gf	58.59	kJ/mol	Joback Method
hf	-176.80	kJ/mol	Joback Method
hfus	19.21	kJ/mol	Joback Method
hvap	49.03	kJ/mol	Joback Method
ie	8.60 ± 0.10	eV	NIST Webbook
log10ws	-1.26		Crippen Method
logp	1.023		Crippen Method
mcvol	96.870	ml/mol	McGowan Method
pc	3930.78	kPa	Joback Method
tb	481.23	K	Joback Method
tc	672.05	K	Joback Method
tf	289.60	K	Joback Method
vc	0.380	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	248.39	J/mol×K	481.23	Joback Method
cpg	262.57	J/mol×K	513.03	Joback Method
cpg	275.79	J/mol×K	544.84	Joback Method
cpg	288.12	J/mol×K	576.64	Joback Method
cpg	299.62	J/mol×K	608.44	Joback Method
cpg	310.37	J/mol×K	640.25	Joback Method
cpg	320.45	J/mol×K	672.05	Joback Method
dvisc	0.0031626	Pa×s	289.60	Joback Method

dvisc	0.0026396	Pa×s	321.54	Joback Method
dvisc	0.0022763	Pa×s	353.48	Joback Method
dvisc	0.0020117	Pa×s	385.42	Joback Method
dvisc	0.0018118	Pa×s	417.35	Joback Method
dvisc	0.0016563	Pa×s	449.29	Joback Method
dvisc	0.0015322	Pa×s	481.23	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=C32426269&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
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
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