Tricycloprop[cd,f,hi]indene,decahydro-,(1aα

Other names: Tricycloprop[cd,f,hi]indene,decahydro-,(1a«alpha»,1b«alpha»,1c«beta»,2a«beta»,2b«alp
Inchi: InChI=1S/C10H12/c1-3-4(1)8-6-2-5-7(3)9(5)10(6)8/h3-10H,1-2H2
InchiKey: SSIQINSIABQRFS-UHFFFAOYSA-N
Formula: C10H12
SMILES: C1C2C1C1C3CC4C2C4C31
Mol. weight [g/mol]: 132.20
CAS: 50895-59-5

Physical Properties

Property code	Value	Unit	Source
gf	374.44	kJ/mol	Joback Method
hf	84.05	kJ/mol	Joback Method
hfus	26.04	kJ/mol	Joback Method
hvap	35.63	kJ/mol	Joback Method
ie	8.78	eV	NIST Webbook
log10ws	-1.55		Crippen Method
logp	1.764		Crippen Method
mcvol	97.460	ml/mol	McGowan Method
pc	3257.86	kPa	Joback Method
tb	426.54	K	Joback Method
tc	623.91	K	Joback Method
tf	297.04	K	Joback Method
vc	0.417	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	246.24	J/mol×K	426.54	Joback Method
cpg	325.91	J/mol×K	591.02	Joback Method
cpg	312.71	J/mol×K	558.12	Joback Method
cpg	298.29	J/mol×K	525.23	Joback Method
cpg	282.50	J/mol×K	492.33	Joback Method
cpg	265.20	J/mol×K	459.44	Joback Method
cpg	338.02	J/mol×K	623.91	Joback Method

dvisc	0.0051935	Pa×s	426.54	Joback Method
dvisc	0.0035093	Pa×s	404.96	Joback Method
dvisc	0.0022689	Pa×s	383.37	Joback Method
dvisc	0.0013925	Pa×s	361.79	Joback Method
dvisc	0.0008033	Pa×s	340.21	Joback Method
dvisc	0.0004302	Pa×s	318.62	Joback Method
dvisc	0.0002103	Pa×s	297.04	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C50895595&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
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