cis-Chrysanthemyl alcohol

Other names:	cis-Chrysanthemol [2,2-Dimethyl-3-(2-methyl-1-propenyl)cyclopropyl]methanol, cis- (Z)-Chrysanthemol trans-Chrysanthemol
Inchi:	InChI=1S/C10H18O/c1-7(2)5-8-9(6-11)10(8,3)4/h5,8-9,11H,6H2,1-4H3
InchiKey:	HIPIENNKVJCMAP-UHFFFAOYSA-N
Formula:	C10H18O
SMILES:	CC(C)=CC1C(CO)C1(C)C
Mol. weight [g/mol]:	154.25
CAS:	18383-59-0

Physical Properties

Property code	Value	Unit	Source
gf	8.01	kJ/mol	Joback Method
hf	-247.17	kJ/mol	Joback Method
hfus	18.61	kJ/mol	Joback Method
hvap	52.72	kJ/mol	Joback Method
log10ws	-2.30		Crippen Method
logp	2.217		Crippen Method
mcvol	142.470	ml/mol	McGowan Method
pc	2712.67	kPa	Joback Method
rinpol	1160.00		NIST Webbook
rinpol	1163.00		NIST Webbook
rinpol	1152.00		NIST Webbook
rinpol	1152.00		NIST Webbook
rinpol	1168.00		NIST Webbook
rinpol	1163.00		NIST Webbook
rinpol	1163.00		NIST Webbook
ripol	1684.00		NIST Webbook
ripol	1684.00		NIST Webbook
ripol	1764.00		NIST Webbook
ripol	1764.00		NIST Webbook
tb	522.06	K	Joback Method
tc	706.96	K	Joback Method
tf	277.60	K	Joback Method
vc	0.548	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	350.21	J/mol×K	522.06	Joback Method
cpg	364.49	J/mol×K	552.88	Joback Method
cpg	377.93	J/mol×K	583.69	Joback Method
cpg	390.63	J/mol×K	614.51	Joback Method
cpg	402.69	J/mol×K	645.32	Joback Method
cpg	414.18	J/mol×K	676.14	Joback Method
cpg	425.20	J/mol×K	706.96	Joback Method

Sources

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=C18383590&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
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