Cyclododecene, 1-methoxy-, (Z)-

Inchi: InChI=1S/C13H24O/c1-14-13-11-9-7-5-3-2-4-6-8-10-12-13/h11H,2-10,12H2,1H3/b13-11-
InchiKey: QKXCGPJJHMULFJ-ACCUITESSA-N
Formula: C13H24O
SMILES: COC1=CCCCCCCCCCC1
Mol. weight [g/mol]: 196.33
CAS: 23057-12-7

Physical Properties

Property code	Value	Unit	Source
gf	-66.53	kJ/mol	Joback Method
hf	-359.86	kJ/mol	Joback Method
hfus	9.61	kJ/mol	Joback Method
hvap	49.67	kJ/mol	Joback Method
log10ws	-4.59		Crippen Method
logp	4.431		Crippen Method
mcvol	184.740	ml/mol	McGowan Method
pc	2324.78	kPa	Joback Method
tb	573.24	K	Joback Method
tc	809.09	K	Joback Method
tf	262.28	K	Joback Method
vc	0.653	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	467.16	J/mol×K	573.24	Joback Method
cpg	581.14	J/mol×K	769.78	Joback Method
cpg	561.46	J/mol×K	730.47	Joback Method
cpg	540.19	J/mol×K	691.17	Joback Method
cpg	517.37	J/mol×K	651.86	Joback Method
cpg	493.02	J/mol×K	612.55	Joback Method
cpg	599.22	J/mol×K	809.09	Joback Method
dvisc	0.0000343	Pa×s	573.24	Joback Method
dvisc	0.0000593	Pa×s	521.41	Joback Method

dvisc	0.0001157	Pa×s	469.59	Joback Method
dvisc	0.0002669	Pa×s	417.76	Joback Method
dvisc	0.0007795	Pa×s	365.93	Joback Method
dvisc	0.0032430	Pa×s	314.11	Joback Method
dvisc	0.0237009	Pa×s	262.28	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=C23057127&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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

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