

1-Methoxy-3-methylenecyclohexene

Inchi:	InChI=1S/C8H12O/c1-7-4-3-5-8(6-7)9-2/h6H,1,3-5H2,2H3
InchiKey:	LCJLBMWGZXUTRM-UHFFFAOYSA-N
Formula:	C8H12O
SMILES:	C=C1C=C(OC)CCC1
Mol. weight [g/mol]:	124.18
CAS:	2773-58-2

Physical Properties

Property code	Value	Unit	Source
gf	17.05	kJ/mol	Joback Method
hf	-135.46	kJ/mol	Joback Method
hfus	8.10	kJ/mol	Joback Method
hvap	37.66	kJ/mol	Joback Method
log10ws	-2.36		Crippen Method
logp	2.257		Crippen Method
mcvol	109.990	ml/mol	McGowan Method
pc	3360.64	kPa	Joback Method
tb	432.38	K	Joback Method
tc	638.38	K	Joback Method
tf	240.73	K	Joback Method
vc	0.406	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	212.30	J/mol×K	432.38	Joback Method
cpg	225.64	J/mol×K	466.71	Joback Method
cpg	238.42	J/mol×K	501.05	Joback Method
cpg	250.64	J/mol×K	535.38	Joback Method
cpg	262.30	J/mol×K	569.72	Joback Method
cpg	273.40	J/mol×K	604.05	Joback Method
cpg	283.95	J/mol×K	638.38	Joback Method
dvisc	0.0023133	Paxs	240.73	Joback Method
dvisc	0.0012540	Paxs	272.67	Joback Method

dvisc	0.0007729	Paxs	304.61	Joback Method
dvisc	0.0005222	Paxs	336.56	Joback Method
dvisc	0.0003777	Paxs	368.50	Joback Method
dvisc	0.0002876	Paxs	400.44	Joback Method
dvisc	0.0002280	Paxs	432.38	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=C2773582&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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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