

2-Methoxy-3-methylcyclohexene

Inchi:	InChI=1S/C8H14O/c1-7-5-3-4-6-8(7)9-2/h6-7H,3-5H2,1-2H3
InchiKey:	WDSGJCMIJFCELE-UHFFFAOYSA-N
Formula:	C8H14O
SMILES:	COC1=CCCCC1C
Mol. weight [g/mol]:	126.20
CAS:	1728-37-6

Physical Properties

Property code	Value	Unit	Source
gf	-43.74	kJ/mol	Joback Method
hf	-240.04	kJ/mol	Joback Method
hfus	10.33	kJ/mol	Joback Method
hvap	37.20	kJ/mol	Joback Method
log10ws	-2.26		Crippen Method
logp	2.337		Crippen Method
mcvol	114.290	ml/mol	McGowan Method
pc	3166.83	kPa	Joback Method
tb	428.55	K	Joback Method
tc	632.24	K	Joback Method
tf	222.81	K	Joback Method
vc	0.420	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	226.70	J/molxK	428.55	Joback Method
cpg	241.96	J/molxK	462.50	Joback Method
cpg	256.57	J/molxK	496.45	Joback Method
cpg	270.55	J/molxK	530.40	Joback Method
cpg	283.90	J/molxK	564.34	Joback Method
cpg	296.63	J/molxK	598.29	Joback Method
cpg	308.74	J/molxK	632.24	Joback Method
dvisc	0.0027362	Paxs	222.81	Joback Method
dvisc	0.0013639	Paxs	257.10	Joback Method

dvisc	0.0008009	Paxs	291.39	Joback Method
dvisc	0.0005261	Paxs	325.68	Joback Method
dvisc	0.0003744	Paxs	359.97	Joback Method
dvisc	0.0002827	Paxs	394.26	Joback Method
dvisc	0.0002233	Paxs	428.55	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=C1728376&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
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mccvol:	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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