

Cyclohexene, 3,5-dimethyl-

Other names:	3,5-Dimethylcyclohexene
Inchi:	InChI=1S/C8H14/c1-7-4-3-5-8(2)6-7/h3-4,7-8H,5-6H2,1-2H3
InchiKey:	YACYBRMPSZPZDF-UHFFFAOYSA-N
Formula:	C8H14
SMILES:	CC1C=CCC(C)C1
Mol. weight [g/mol]:	110.20
CAS:	823-17-6

Physical Properties

Property code	Value	Unit	Source
gf	63.18	kJ/mol	Joback Method
hf	-116.69	kJ/mol	Joback Method
hfus	10.60	kJ/mol	Joback Method
hvap	33.81	kJ/mol	Joback Method
log10ws	-2.44		Crippen Method
logp	2.609		Crippen Method
mcvol	108.420	ml/mol	McGowan Method
pc	3163.27	kPa	Joback Method
rinpol	912.00		NIST Webbook
tb	398.00 ± 3.00	K	NIST Webbook
tc	598.94	K	Joback Method
tf	183.82	K	Joback Method
vc	0.402	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	199.92	J/molxK	396.48	Joback Method
cpg	216.40	J/molxK	430.22	Joback Method
cpg	232.12	J/molxK	463.97	Joback Method
cpg	247.09	J/molxK	497.71	Joback Method
cpg	261.33	J/molxK	531.46	Joback Method
cpg	274.86	J/molxK	565.20	Joback Method
cpg	287.70	J/molxK	598.94	Joback Method

dvisc	0.0029050	Paxs	183.82	Joback Method
dvisc	0.0013823	Paxs	219.26	Joback Method
dvisc	0.0008088	Paxs	254.71	Joback Method
dvisc	0.0005394	Paxs	290.15	Joback Method
dvisc	0.0003929	Paxs	325.59	Joback Method
dvisc	0.0003046	Paxs	361.04	Joback Method
dvisc	0.0002471	Paxs	396.48	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=C823176&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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
mvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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