

1,3,5-Trimethyl-1-cyclohexene,c&t

Other names:	Cyclohexene, 1,3,5-trimethyl- 1,3,5-Trimethyl-1-cyclohexene,c&t
Inchi:	InChI=1S/C9H16/c1-7-4-8(2)6-9(3)5-7/h4,7,9H,5-6H2,1-3H3
InchiKey:	PKHOIUJRGGWFEF-UHFFFAOYSA-N
Formula:	C9H16
SMILES:	CC1=CC(C)CC(C)C1
Mol. weight [g/mol]:	124.22
CAS:	3643-64-9

Physical Properties

Property code	Value	Unit	Source
gf	61.97	kJ/mol	Joback Method
hf	-148.80	kJ/mol	Joback Method
hfus	12.80	kJ/mol	Joback Method
hvap	36.70	kJ/mol	Joback Method
log10ws	-2.85		Crippen Method
logp	2.999		Crippen Method
mvol	122.510	ml/mol	McGowan Method
pc	2802.44	kPa	Joback Method
tb	414.40 ± 3.00	K	NIST Webbook
tb	413.00 ± 3.00	K	NIST Webbook
tb	414.20	K	NIST Webbook
tc	626.38	K	Joback Method
tf	207.61	K	Joback Method
vc	0.458	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	243.33	J/mol×K	424.34	Joback Method
cpg	260.46	J/mol×K	458.01	Joback Method
cpg	276.84	J/mol×K	491.69	Joback Method
cpg	292.47	J/mol×K	525.36	Joback Method
cpg	307.37	J/mol×K	559.03	Joback Method

cpg	321.55	J/mol×K	592.70	Joback Method
cpg	335.03	J/mol×K	626.38	Joback Method
dvisc	0.0021413	Paxs	207.61	Joback Method
dvisc	0.0011365	Paxs	243.73	Joback Method
dvisc	0.0007103	Paxs	279.85	Joback Method
dvisc	0.0004943	Paxs	315.98	Joback Method
dvisc	0.0003706	Paxs	352.10	Joback Method
dvisc	0.0002931	Paxs	388.22	Joback Method
dvisc	0.0002413	Paxs	424.34	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=C3643649&Units=SI

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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