

trans-carbomethoxy-2-methylcyclohex-3-ene

Inchi:	InChI=1S/C9H14O2/c1-7-5-3-4-6-8(7)9(10)11-2/h3,5,7-8H,4,6H2,1-2H3/t7-,8-/m1/s1
InchiKey:	BOWOPOVPEZXLKV-HTQZYQBOSA-N
Formula:	C9H14O2
SMILES:	COC(=O)C1CCC=CC1C
Mol. weight [g/mol]:	154.21

Physical Properties

Property code	Value	Unit	Source
gf	-162.32	kJ/mol	Joback Method
hf	-382.13	kJ/mol	Joback Method
hfus	15.98	kJ/mol	Joback Method
hvap	45.20	kJ/mol	Joback Method
log10ws	-1.72		Crippen Method
logp	1.762		Crippen Method
mcvol	129.950	ml/mol	McGowan Method
pc	2992.59	kPa	Joback Method
ripol	1485.40		NIST Webbook
tb	495.65	K	Joback Method
tc	705.97	K	Joback Method
tf	267.25	K	Joback Method
vc	0.481	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	292.21	J/molxK	495.65	Joback Method
cpg	308.44	J/molxK	530.70	Joback Method
cpg	323.88	J/molxK	565.76	Joback Method
cpg	338.53	J/molxK	600.81	Joback Method
cpg	352.41	J/molxK	635.86	Joback Method
cpg	365.52	J/molxK	670.91	Joback Method
cpg	377.85	J/molxK	705.97	Joback Method
dvisc	0.0026183	Paxs	267.25	Joback Method
dvisc	0.0014230	Paxs	305.32	Joback Method

dvisc	0.0008854	Paxs	343.38	Joback Method
dvisc	0.0006056	Paxs	381.45	Joback Method
dvisc	0.0004438	Paxs	419.52	Joback Method
dvisc	0.0003424	Paxs	457.58	Joback Method
dvisc	0.0002750	Paxs	495.65	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=R388455&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
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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