

Acetyl cymene

Other names:	Acetophenone, 2'-methyl-5'-isopropyl
Inchi:	InChI=1S/C12H16O/c1-8(2)11-6-5-9(3)12(7-11)10(4)13/h5-8H,1-4H3
InchiKey:	LVNVQCXLRILPCM-UHFFFAOYSA-N
Formula:	C12H16O
SMILES:	CC(=O)c1cc(C(C)C)ccc1C
Mol. weight [g/mol]:	176.25

Physical Properties

Property code	Value	Unit	Source
gf	11.95	kJ/mol	Joback Method
hf	-195.28	kJ/mol	Joback Method
hfus	18.18	kJ/mol	Joback Method
hvap	52.26	kJ/mol	Joback Method
log10ws	-3.79		Crippen Method
logp	3.321		Crippen Method
mcvol	157.750	ml/mol	McGowan Method
pc	2505.01	kPa	Joback Method
rinpol	1381.00		NIST Webbook
rinpol	1358.00		NIST Webbook
ripol	1876.00		NIST Webbook
ripol	1876.00		NIST Webbook
ripol	1928.00		NIST Webbook
tb	564.03	K	Joback Method
tc	778.76	K	Joback Method
tf	311.39	K	Joback Method
vc	0.600	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	368.54	J/molxK	564.03	Joback Method
cpg	383.90	J/molxK	599.82	Joback Method
cpg	398.39	J/molxK	635.61	Joback Method
cpg	412.05	J/molxK	671.39	Joback Method

cpg	424.91	J/molxK	707.18	Joback Method
cpg	436.99	J/molxK	742.97	Joback Method
cpg	448.33	J/molxK	778.76	Joback Method
dvisc	0.0021912	Paxs	311.39	Joback Method
dvisc	0.0011633	Paxs	353.50	Joback Method
dvisc	0.0007067	Paxs	395.60	Joback Method
dvisc	0.0004725	Paxs	437.71	Joback Method
dvisc	0.0003391	Paxs	479.82	Joback Method
dvisc	0.0002567	Paxs	521.92	Joback Method
dvisc	0.0002026	Paxs	564.03	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R409364&Units=SI
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

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
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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