

Oxepin, 2-methyl

Inchi:	InChI=1S/C7H8O/c1-7-5-3-2-4-6-8-7/h2-6H,1H3
InchiKey:	DMRHPVNNCCKLPE-UHFFFAOYSA-N
Formula:	C7H8O
SMILES:	CC1=CC=CC=CO1
Mol. weight [g/mol]:	108.14
CAS:	16479-77-9

Physical Properties

Property code	Value	Unit	Source
gf	22.25	kJ/mol	Joback Method
hf	-89.44	kJ/mol	Joback Method
hfus	13.81	kJ/mol	Joback Method
hvap	38.13	kJ/mol	Joback Method
log10ws	-2.29		Crippen Method
logp	1.990		Crippen Method
mcvol	91.600	ml/mol	McGowan Method
pc	4200.18	kPa	Joback Method
tb	417.46	K	Joback Method
tc	638.17	K	Joback Method
tf	218.12	K	Joback Method
vc	0.333	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	162.98	J/molxK	417.46	Joback Method
cpg	174.94	J/molxK	454.24	Joback Method
cpg	186.23	J/molxK	491.03	Joback Method
cpg	196.86	J/molxK	527.81	Joback Method
cpg	206.87	J/molxK	564.60	Joback Method
cpg	216.25	J/molxK	601.38	Joback Method
cpg	225.04	J/molxK	638.17	Joback Method
dvisc	0.0056735	Paxs	218.12	Joback Method
dvisc	0.0023660	Paxs	251.34	Joback Method

dvisc	0.0012102	Paxs	284.57	Joback Method
dvisc	0.0007122	Paxs	317.79	Joback Method
dvisc	0.0004634	Paxs	351.01	Joback Method
dvisc	0.0003247	Paxs	384.24	Joback Method
dvisc	0.0002408	Paxs	417.46	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=C16479779&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
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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