

8-Hydroxy-2-octanone

Inchi:	InChI=1S/C8H16O2/c1-8(10)6-4-2-3-5-7-9/h9H,2-7H2,1H3
InchiKey:	UMDPPTMXBUCHCM-UHFFFAOYSA-N
Formula:	C8H16O2
SMILES:	CC(=O)CCCCCO
Mol. weight [g/mol]:	144.21
CAS:	25368-54-1

Physical Properties

Property code	Value	Unit	Source
gf	-249.26	kJ/mol	Joback Method
hf	-473.26	kJ/mol	Joback Method
hfus	22.16	kJ/mol	Joback Method
hvap	56.83	kJ/mol	Joback Method
log10ws	-1.71		Crippen Method
logp	1.518		Crippen Method
mcvol	131.020	ml/mol	McGowan Method
pc	2982.79	kPa	Joback Method
ripol	2181.00		NIST Webbook
tb	528.49	K	Joback Method
tc	697.39	K	Joback Method
tf	290.67	K	Joback Method
vc	0.508	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	309.45	J/molxK	528.49	Joback Method
cpg	320.30	J/molxK	556.64	Joback Method
cpg	330.71	J/molxK	584.79	Joback Method
cpg	340.68	J/molxK	612.94	Joback Method
cpg	350.23	J/molxK	641.09	Joback Method
cpg	359.37	J/molxK	669.24	Joback Method
cpg	368.11	J/molxK	697.39	Joback Method
dvisc	0.0161114	Paxs	290.67	Joback Method

dvisc	0.0046128	Paxs	330.31	Joback Method
dvisc	0.0017266	Paxs	369.94	Joback Method
dvisc	0.0007817	Paxs	409.58	Joback Method
dvisc	0.0004070	Paxs	449.22	Joback Method
dvisc	0.0002356	Paxs	488.85	Joback Method
dvisc	0.0001480	Paxs	528.49	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=C25368541&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cp_g:	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:	Log ₁₀ 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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