

1-Octen-3-one

Other names:	Vinyl amyl ketone Pentyl vinyl ketone Amyl vinyl ketone 1-Octene-3-one Oct-1-en-3-one octen-3-one, 1
Inchi:	InChI=1S/C8H14O/c1-3-5-6-7-8(9)4-2/h4H,2-3,5-7H2,1H3
InchiKey:	KLTVSWGXIAYTHO-UHFFFAOYSA-N
Formula:	C8H14O
SMILES:	C=CC(=O)CCCCC
Mol. weight [g/mol]:	126.20
CAS:	4312-99-6

Physical Properties

Property code	Value	Unit	Source
gf	-24.60	kJ/mol	Joback Method
hf	-195.60	kJ/mol	Joback Method
hfus	16.79	kJ/mol	Joback Method
hvap	39.48	kJ/mol	Joback Method
log10ws	-2.30		Crippen Method
logp	2.322		Crippen Method
mcvol	120.850	ml/mol	McGowan Method
pc	2826.33	kPa	Joback Method
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tc	611.99	K	Joback Method
tf	228.09	K	Joback Method
vc	0.470	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	239.51	J/mol×K	432.99	Joback Method
cpg	251.42	J/mol×K	462.82	Joback Method

cpg	262.81	J/molxK	492.66	Joback Method
cpg	273.71	J/molxK	522.49	Joback Method
cpg	284.13	J/molxK	552.32	Joback Method
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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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