

3-Octen-2-ol

Other names:	oct-3-en-2-ol
Inchi:	InChI=1S/C8H16O/c1-3-4-5-6-7-8(2)9/h6-9H,3-5H2,1-2H3/b7-6+
InchiKey:	YJJIVDCKSZMHGZ-VOTSOKGWSA-N
Formula:	C8H16O
SMILES:	CCCCCC=CC(C)O
Mol. weight [g/mol]:	128.21
CAS:	76649-14-4

Physical Properties

Property code	Value	Unit	Source
gf	-42.56	kJ/mol	Joback Method
hf	-248.74	kJ/mol	Joback Method
hfus	17.24	kJ/mol	Joback Method
hvap	49.65	kJ/mol	Joback Method
log10ws	-2.40		Crippen Method
logp	2.114		Crippen Method
mcvol	125.150	ml/mol	McGowan Method
pc	2973.04	kPa	Joback Method
ripol	1769.00		NIST Webbook
ripol	1769.00		NIST Webbook
tb	478.34	K	Joback Method
tc	648.44	K	Joback Method
tf	220.66	K	Joback Method
vc	0.476	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	273.48	J/molxK	478.34	Joback Method
cpg	326.05	J/molxK	620.09	Joback Method
cpg	316.47	J/molxK	591.74	Joback Method
cpg	306.45	J/molxK	563.39	Joback Method
cpg	295.95	J/molxK	535.04	Joback Method
cpg	284.97	J/molxK	506.69	Joback Method

cpg	335.20	J/mol×K	648.44	Joback Method
dvisc	0.0001379	Paxs	478.34	Joback Method
dvisc	0.0002455	Paxs	435.39	Joback Method
dvisc	0.0004958	Paxs	392.45	Joback Method
dvisc	0.0011905	Paxs	349.50	Joback Method
dvisc	0.0036535	Paxs	306.55	Joback Method
dvisc	0.0161573	Paxs	263.61	Joback Method
dvisc	0.1274533	Paxs	220.66	Joback Method

Sources

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=C76649144&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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

Latest version available from:

<https://www.chemeo.com/cid/23-455-1/3-Octen-2-ol.pdf>

Generated by Cheméo on 2024-04-20 06:14:15.884122495 +0000 UTC m=+15882904.804699810.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.