

1-Undecen-3-ol

Other names:	undec-1-en-3-ol
Inchi:	InChI=1S/C11H22O/c1-3-5-6-7-8-9-10-11(12)4-2/h4,11-12H,2-3,5-10H2,1H3
InchiKey:	NAOMHUDQUVEWEF-UHFFFAOYSA-N
Formula:	C11H22O
SMILES:	C=CC(O)CCCCCCCC
Mol. weight [g/mol]:	170.29
CAS:	35329-42-1

Physical Properties

Property code	Value	Unit	Source
gf	-9.68	kJ/mol	Joback Method
hf	-302.45	kJ/mol	Joback Method
hfus	23.53	kJ/mol	Joback Method
hvap	55.70	kJ/mol	Joback Method
log10ws	-3.66		Crippen Method
logp	3.284		Crippen Method
mcvol	167.420	ml/mol	McGowan Method
pc	2200.01	kPa	Joback Method
rinpol	1293.00		NIST Webbook
rinpol	1293.00		NIST Webbook
tb	539.50	K	Joback Method
tc	702.67	K	Joback Method
tf	257.79	K	Joback Method
vc	0.645	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	409.38	J/molxK	539.50	Joback Method
cpg	423.11	J/molxK	566.69	Joback Method
cpg	436.28	J/molxK	593.89	Joback Method
cpg	448.90	J/molxK	621.08	Joback Method
cpg	460.99	J/molxK	648.28	Joback Method
cpg	472.57	J/molxK	675.47	Joback Method

cpg	483.65	J/mol×K	702.67	Joback Method
dvisc	0.0477904	Paxs	257.79	Joback Method
dvisc	0.0077747	Paxs	304.74	Joback Method
dvisc	0.0020540	Paxs	351.69	Joback Method
dvisc	0.0007425	Paxs	398.64	Joback Method
dvisc	0.0003326	Paxs	445.60	Joback Method
dvisc	0.0001736	Paxs	492.55	Joback Method
dvisc	0.0001015	Paxs	539.50	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=C35329421&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
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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