

1-Undecanol, 1-chloro, acetate

Other names:	1-Chloroundecyl acetate
Inchi:	InChI=1S/C13H25ClO2/c1-3-4-5-6-7-8-9-10-11-13(14)16-12(2)15/h13H,3-11H2,1-2H3
InchiKey:	REELFKBULJSRTK-UHFFFAOYSA-N
Formula:	C13H25ClO2
SMILES:	CCCCCCCCCCC(Cl)OC(C)=O
Mol. weight [g/mol]:	248.79

Physical Properties

Property code	Value	Unit	Source
gf	-189.71	kJ/mol	Joback Method
hf	-577.47	kJ/mol	Joback Method
hfus	32.89	kJ/mol	Joback Method
hvap	57.69	kJ/mol	Joback Method
log10ws	-4.89		Crippen Method
logp	4.645		Crippen Method
mcvol	213.710	ml/mol	McGowan Method
pc	1667.33	kPa	Joback Method
rinpol	1617.00		NIST Webbook
rinpol	1616.00		NIST Webbook
rinpol	1618.00		NIST Webbook
rinpol	1616.00		NIST Webbook
rinpol	1612.00		NIST Webbook
ripol	2013.00		NIST Webbook
ripol	2044.00		NIST Webbook
ripol	2000.00		NIST Webbook
ripol	2000.00		NIST Webbook
ripol	2005.00		NIST Webbook
tb	610.12	K	Joback Method
tc	786.44	K	Joback Method
tf	323.35	K	Joback Method
vc	0.831	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	548.21	J/mol×K	610.12	Joback Method
cpg	620.96	J/mol×K	757.05	Joback Method
cpg	607.77	J/mol×K	727.67	Joback Method
cpg	593.91	J/mol×K	698.28	Joback Method
cpg	579.37	J/mol×K	668.89	Joback Method
cpg	564.14	J/mol×K	639.51	Joback Method
cpg	633.51	J/mol×K	786.44	Joback Method
dvisc	0.0001484	Paxs	610.12	Joback Method
dvisc	0.0001991	Paxs	562.33	Joback Method
dvisc	0.0002822	Paxs	514.53	Joback Method
dvisc	0.0004297	Paxs	466.74	Joback Method
dvisc	0.0007200	Paxs	418.94	Joback Method
dvisc	0.0013781	Paxs	371.14	Joback Method
dvisc	0.0031957	Paxs	323.35	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=R33783&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
hvac:	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
ripol:	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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