

3-Decanol, acetate

Inchi:	InChI=1S/C12H24O2/c1-4-6-7-8-9-10-12(5-2)14-11(3)13/h12H,4-10H2,1-3H3
InchiKey:	JPWBFRWFHBFLLJX-UHFFFAOYSA-N
Formula:	C12H24O2
SMILES:	CCCCCCCC(CC)OC(C)=O
Mol. weight [g/mol]:	200.32

Physical Properties

Property code	Value	Unit	Source
gf	-186.20	kJ/mol	Joback Method
hf	-541.09	kJ/mol	Joback Method
hfus	26.10	kJ/mol	Joback Method
hvap	51.07	kJ/mol	Joback Method
log10ws	-3.82		Crippen Method
logp	3.689		Crippen Method
mcvol	187.380	ml/mol	McGowan Method
pc	1864.33	kPa	Joback Method
rinpol	1304.00		NIST Webbook
tb	549.81	K	Joback Method
tc	722.69	K	Joback Method
tf	282.16	K	Joback Method
vc	0.726	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	464.44	J/mol×K	549.81	Joback Method
cpg	480.46	J/mol×K	578.62	Joback Method
cpg	495.83	J/mol×K	607.44	Joback Method
cpg	510.57	J/mol×K	636.25	Joback Method
cpg	524.69	J/mol×K	665.07	Joback Method
cpg	538.20	J/mol×K	693.88	Joback Method
cpg	551.11	J/mol×K	722.69	Joback Method
dvisc	0.0042661	Pa×s	282.16	Joback Method
dvisc	0.0017460	Pa×s	326.77	Joback Method

dvisc	0.0008857	Pa×s	371.38	Joback Method
dvisc	0.0005197	Pa×s	415.99	Joback Method
dvisc	0.0003381	Pa×s	460.59	Joback Method
dvisc	0.0002373	Pa×s	505.20	Joback Method
dvisc	0.0001764	Pa×s	549.81	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=R6450&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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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