

Acetic acid, dec-2-yl ester

Other names:	2-Decanol, acetate
	2-Decyl acetate
Inchi:	InChI=1S/C12H24O2/c1-4-5-6-7-8-9-10-11(2)14-12(3)13/h11H,4-10H2,1-3H3
InchiKey:	FHOHSBSVEVWOBQ-UHFFFAOYSA-N
Formula:	C12H24O2
SMILES:	CCCCCCCCC(C)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	1319.00		NIST Webbook
rinpol	1316.00		NIST Webbook
rinpol	1343.00		NIST Webbook
rinpol	1343.00		NIST Webbook
ripol	1455.00		NIST Webbook
ripol	1455.00		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

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U367896&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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

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

Latest version available from:

<https://www.chemeo.com/cid/50-467-8/Acetic-acid-dec-2-yl-ester.pdf>

Generated by Cheméo on 2025-12-06 02:29:16.373246789 +0000 UTC m=+4736353.903287446.

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