

Allyl nonanoate

Other names:	Allyl pelargonate Nonanoic acid, 2-propenyl ester Nonanoic acid, allyl ester Allyl n-nonanoate allyl nonan-1-oate
Inchi:	InChI=1S/C12H22O2/c1-3-5-6-7-8-9-10-12(13)14-11-4-2/h4H,2-3,5-11H2,1H3
InchiKey:	MFLWLDDOGSNSKO-UHFFFAOYSA-N
Formula:	C12H22O2
SMILES:	C=CCOC(=O)CCCCCCCC
Mol. weight [g/mol]:	198.30
CAS:	7493-72-3

Physical Properties

Property code	Value	Unit	Source
gf	-95.92	kJ/mol	Joback Method
hf	-410.38	kJ/mol	Joback Method
hfus	28.34	kJ/mol	Joback Method
hvap	50.79	kJ/mol	Joback Method
log10ws	-3.56		Crippen Method
logp	3.466		Crippen Method
mcvol	183.080	ml/mol	McGowan Method
pc	1920.30	kPa	Joback Method
rinpol	1365.00		NIST Webbook
rinpol	1355.00		NIST Webbook
rinpol	1376.00		NIST Webbook
ripol	1610.00		NIST Webbook
tb	546.93	K	Joback Method
tc	719.58	K	Joback Method
tf	295.40	K	Joback Method
vc	0.713	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	444.34	J/molxK	546.93	Joback Method
cpg	459.51	J/molxK	575.71	Joback Method
cpg	474.05	J/molxK	604.48	Joback Method
cpg	487.98	J/molxK	633.26	Joback Method
cpg	501.31	J/molxK	662.03	Joback Method
cpg	514.06	J/molxK	690.81	Joback Method
cpg	526.24	J/molxK	719.58	Joback Method
dvisc	0.0029144	Paxs	295.40	Joback Method
dvisc	0.0013996	Paxs	337.32	Joback Method
dvisc	0.0007904	Paxs	379.24	Joback Method
dvisc	0.0005002	Paxs	421.17	Joback Method
dvisc	0.0003439	Paxs	463.09	Joback Method
dvisc	0.0002516	Paxs	505.01	Joback Method
dvisc	0.0001931	Paxs	546.93	Joback Method

Sources

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=C7493723&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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

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