

Allyl 2-heptenoate

Inchi:	InChI=1S/C10H16O2/c1-3-5-6-7-8-10(11)12-9-4-2/h4,7-8H,2-3,5-6,9H2,1H3/b8-7+
InchiKey:	VHJIZSCKFCIYGY-BQYQJAHWSA-N
Formula:	C10H16O2
SMILES:	C=CCOC(=O)C=CCCC
Mol. weight [g/mol]:	168.23

Physical Properties

Property code	Value	Unit	Source
gf	-32.54	kJ/mol	Joback Method
hf	-251.88	kJ/mol	Joback Method
hfus	23.37	kJ/mol	Joback Method
hvap	46.30	kJ/mol	Joback Method
log10ws	-2.58		Crippen Method
logp	2.462		Crippen Method
mcvol	150.600	ml/mol	McGowan Method
pc	2407.64	kPa	Joback Method
rinpol	1164.00		NIST Webbook
rinpol	1164.00		NIST Webbook
ripol	1454.00		NIST Webbook
ripol	1454.00		NIST Webbook
tb	505.33	K	Joback Method
tc	688.59	K	Joback Method
tf	267.78	K	Joback Method
vc	0.581	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	332.46	J/molxK	505.33	Joback Method
cpg	345.70	J/molxK	535.87	Joback Method
cpg	358.33	J/molxK	566.42	Joback Method
cpg	370.39	J/molxK	596.96	Joback Method
cpg	381.88	J/molxK	627.50	Joback Method
cpg	392.82	J/molxK	658.05	Joback Method

cpg	403.24	J/molxK	688.59	Joback Method
dvisc	0.0028123	Paxs	267.78	Joback Method
dvisc	0.0013463	Paxs	307.37	Joback Method
dvisc	0.0007625	Paxs	346.96	Joback Method
dvisc	0.0004852	Paxs	386.55	Joback Method
dvisc	0.0003358	Paxs	426.15	Joback Method
dvisc	0.0002474	Paxs	465.74	Joback Method
dvisc	0.0001912	Paxs	505.33	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=R409384&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
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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<https://www.chemeo.com/cid/86-039-4/Allyl-2-heptenoate.pdf>

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