

allyl amyl glycolate

Inchi:	InChI=1S/C10H18O3/c1-3-5-6-8-12-9-10(11)13-7-4-2/h4H,2-3,5-9H2,1H3
InchiKey:	RRIFFBJNXMRMKT-UHFFFAOYSA-N
Formula:	C10H18O3
SMILES:	C=CCOC(=O)COCCCCC
Mol. weight [g/mol]:	186.25

Physical Properties

Property code	Value	Unit	Source
gf	-217.76	kJ/mol	Joback Method
hf	-501.32	kJ/mol	Joback Method
hfus	24.35	kJ/mol	Joback Method
hvap	48.75	kJ/mol	Joback Method
log10ws	-1.81		Crippen Method
logp	1.922		Crippen Method
mvol	160.770	ml/mol	McGowan Method
pc	2252.53	kPa	Joback Method
rinpol	1212.80		NIST Webbook
rinpol	1212.80		NIST Webbook
tb	523.59	K	Joback Method
tc	698.47	K	Joback Method
tf	295.09	K	Joback Method
vc	0.619	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	375.30	J/mol×K	523.59	Joback Method
cpg	388.70	J/mol×K	552.74	Joback Method
cpg	401.60	J/mol×K	581.88	Joback Method
cpg	414.01	J/mol×K	611.03	Joback Method
cpg	425.92	J/mol×K	640.18	Joback Method
cpg	437.34	J/mol×K	669.33	Joback Method
cpg	448.27	J/mol×K	698.47	Joback Method
dvisc	0.0022271	Paxs	295.09	Joback Method

dvisc	0.0011630	Paxs	333.17	Joback Method
dvisc	0.0006939	Paxs	371.26	Joback Method
dvisc	0.0004558	Paxs	409.34	Joback Method
dvisc	0.0003216	Paxs	447.42	Joback Method
dvisc	0.0002397	Paxs	485.51	Joback Method
dvisc	0.0001864	Paxs	523.59	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=R185281&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cp_g:	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:	Log ₁₀ of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
m_{cvol}:	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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