

But-3-enyl (E)-2-methylbut-2-enoate

Inchi:	InChI=1S/C9H14O2/c1-4-6-7-11-9(10)8(3)5-2/h4-5H,1,6-7H2,2-3H3/b8-5+
InchiKey:	DMDOPNKEKJBLCQ-VMPITWQZSA-N
Formula:	C9H14O2
SMILES:	C=CCCOC(=O)C(C)=CC
Mol. weight [g/mol]:	154.21

Physical Properties

Property code	Value	Unit	Source
gf	-49.51	kJ/mol	Joback Method
hf	-241.03	kJ/mol	Joback Method
hfus	19.46	kJ/mol	Joback Method
hvap	44.15	kJ/mol	Joback Method
log10ws	-2.16		Crippen Method
logp	2.072		Crippen Method
mcvol	136.510	ml/mol	McGowan Method
pc	2665.27	kPa	Joback Method
rinpol	1115.00		NIST Webbook
tb	482.33	K	Joback Method
tc	670.93	K	Joback Method
tf	242.55	K	Joback Method
vc	0.525	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	288.43	J/mol×K	482.33	Joback Method
cpg	300.93	J/mol×K	513.76	Joback Method
cpg	312.85	J/mol×K	545.20	Joback Method
cpg	324.21	J/mol×K	576.63	Joback Method
cpg	335.02	J/mol×K	608.06	Joback Method
cpg	345.32	J/mol×K	639.49	Joback Method
cpg	355.10	J/mol×K	670.93	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=U373721&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvac:	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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