

Butanoic acid, 3-methyl-, 3,7-dimethyl-6-octenyl ester

Other names:	Citronellyl iso-valerate 3,7-dimethyloct-6-enyl isovalerate
Inchi:	InChI=1S/C15H28O2/c1-12(2)7-6-8-14(5)9-10-17-15(16)11-13(3)4/h7,13-14H,6,8-11H2,1-5H3
InchiKey:	WZTNQQJXPYEGAF-UHFFFAOYSA-N
Formula:	C15H28O2
SMILES:	CC(C)=CCCC(C)CCOC(=O)CC(C)C
Mol. weight [g/mol]:	240.38
CAS:	68922-10-1

Physical Properties

Property code	Value	Unit	Source
gf	-91.71	kJ/mol	Joback Method
hf	-500.86	kJ/mol	Joback Method
hfus	29.24	kJ/mol	Joback Method
hvap	57.40	kJ/mol	Joback Method
log10ws	-4.33		Crippen Method
logp	4.348		Crippen Method
mcvol	225.350	ml/mol	McGowan Method
pc	1551.22	kPa	Joback Method
rinpol	1563.00		NIST Webbook
rinpol	1558.00		NIST Webbook
rinpol	1563.00		NIST Webbook
rinpol	1558.00		NIST Webbook
rinpol	1563.00		NIST Webbook
ripol	1800.00		NIST Webbook
tb	622.05	K	Joback Method
tc	803.00	K	Joback Method
tf	281.93	K	Joback Method
vc	0.869	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	601.07	J/mol×K	622.05	Joback Method

cpg	618.93	J/mol×K	652.21	Joback Method
cpg	635.95	J/mol×K	682.37	Joback Method
cpg	652.16	J/mol×K	712.52	Joback Method
cpg	667.59	J/mol×K	742.68	Joback Method
cpg	682.26	J/mol×K	772.84	Joback Method
cpg	696.20	J/mol×K	803.00	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C68922101&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
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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