

Octyl (E)-2-methylbut-2-enoate

Inchi:
InchiKey:
Formula:
SMILES:
Mol. weight [g/mol]:

InChI=1S/C13H24O2/c1-4-6-7-8-9-10-11-15-13(14)12(3)5-2/h5H,4,6-11H2,1-3H3/b12-5+

InchiKey:
Formula:
SMILES:
Mol. weight [g/mol]:

JNHPLASQNDHBJH-LFYBBSHMSA-N
C13H24O2
CC=C(C)C(=O)OCCCCCCCC
212.33

Physical Properties

Property code	Value	Unit	Source
gf	-103.67	kJ/mol	Joback Method
hf	-449.02	kJ/mol	Joback Method
hfus	31.10	kJ/mol	Joback Method
hvap	53.73	kJ/mol	Joback Method
log10ws	-3.98		Crippen Method
logp	3.856		Crippen Method
mcvol	197.170	ml/mol	McGowan Method
pc	1790.91	kPa	Joback Method
rinpol	1528.00		NIST Webbook
rinpol	1528.00		NIST Webbook
tb	577.17	K	Joback Method
tc	754.87	K	Joback Method
tf	289.39	K	Joback Method
vc	0.768	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	495.58	J/mol×K	577.17	Joback Method
cpg	511.74	J/mol×K	606.79	Joback Method
cpg	527.18	J/mol×K	636.40	Joback Method
cpg	541.94	J/mol×K	666.02	Joback Method
cpg	556.03	J/mol×K	695.64	Joback Method
cpg	569.46	J/mol×K	725.25	Joback Method
cpg	582.27	J/mol×K	754.87	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=U373712&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws

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
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.cheméo.com/cid/13-147-4/Octyl-E-2-methylbut-2-enoate.pdf>

Generated by Cheméo on 2025-12-05 17:24:22.812564339 +0000 UTC m=+4703660.342604993.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.