

Octan-2-yl (E)-2-methylbut-2-enoate

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

InChI=1S/C13H24O2/c1-5-7-8-9-10-12(4)15-13(14)11(3)6-2/h6,12H,5,7-10H2,1-4H3/b11

XGOLBNZGKRAOKD-IZZDOVSWSA-N

C13H24O2

CC=C(C)C(=O)OC(C)CCCCC

212.33

Physical Properties

Property code	Value	Unit	Source
gf	-106.11	kJ/mol	Joback Method
hf	-454.30	kJ/mol	Joback Method
hfus	27.58	kJ/mol	Joback Method
hvap	53.34	kJ/mol	Joback Method
log10ws	-4.09		Crippen Method
logp	3.855		Crippen Method
mcvol	197.170	ml/mol	McGowan Method
pc	1803.09	kPa	Joback Method
rinpol	1435.00		NIST Webbook
rinpol	1435.00		NIST Webbook
tb	576.73	K	Joback Method
tc	757.65	K	Joback Method
tf	274.39	K	Joback Method
vc	0.762	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	495.91	J/mol×K	576.73	Joback Method
cpg	512.41	J/mol×K	606.88	Joback Method
cpg	528.17	J/mol×K	637.04	Joback Method
cpg	543.21	J/mol×K	667.19	Joback Method
cpg	557.54	J/mol×K	697.35	Joback Method
cpg	571.19	J/mol×K	727.50	Joback Method
cpg	584.19	J/mol×K	757.65	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U373760&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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

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