

Dimethyl (Z)-2-n-hexyl-3-methylbutendioate

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

InChI=1S/C13H22O4/c1-5-6-7-8-9-11(13(15)17-4)10(2)12(14)16-3/h5-9H2,1-4H3/b11-10

SBJHHFISYOOZLE-ZHACJKMWSA-N

C13H22O4

CCCCCCC(C(=O)OC)=C(C)C(=O)OC

242.31

Physical Properties

Property code	Value	Unit	Source
gf	-346.14	kJ/mol	Joback Method
hf	-703.61	kJ/mol	Joback Method
hfus	32.58	kJ/mol	Joback Method
hvap	62.96	kJ/mol	Joback Method
log10ws	-2.84		Crippen Method
logp	2.619		Crippen Method
mcvol	204.610	ml/mol	McGowan Method
pc	1870.79	kPa	Joback Method
rinpol	1587.00		NIST Webbook
rinpol	1587.00		NIST Webbook
tb	653.34	K	Joback Method
tc	840.46	K	Joback Method
tf	347.59	K	Joback Method
vc	0.793	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	546.32	J/mol×K	653.34	Joback Method
cpg	561.30	J/mol×K	684.53	Joback Method
cpg	575.56	J/mol×K	715.71	Joback Method
cpg	589.09	J/mol×K	746.90	Joback Method
cpg	601.92	J/mol×K	778.08	Joback Method
cpg	614.06	J/mol×K	809.27	Joback Method
cpg	625.52	J/mol×K	840.46	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R229188&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
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
rlnpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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