

(E)-hex-2-enyl isovalerate

Other names:	(E)-Hex-2-en-1-yl 3-methylbutanoate
Inchi:	InChI=1S/C11H20O2/c1-4-5-6-7-8-13-11(12)9-10(2)3/h6-7,10H,4-5,8-9H2,1-3H3/b7-6+
InchiKey:	SAVRWHQEMHIAEB-VOTSOKGWSA-N
Formula:	C11H20O2
SMILES:	CCCC=CCOC(=O)CC(C)C
Mol. weight [g/mol]:	184.28
CAS:	68698-59-9

Physical Properties

Property code	Value	Unit	Source
gf	-114.40	kJ/mol	Joback Method
hf	-403.23	kJ/mol	Joback Method
hfus	23.71	kJ/mol	Joback Method
hvap	48.81	kJ/mol	Joback Method
log10ws	-2.90		Crippen Method
logp	2.932		Crippen Method
mcvol	168.990	ml/mol	McGowan Method
pc	2127.56	kPa	Joback Method
rinpol	1244.90		NIST Webbook
rinpol	1244.90		NIST Webbook
tb	531.09	K	Joback Method
tc	712.68	K	Joback Method
tf	265.81	K	Joback Method
vc	0.649	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	397.61	J/molxK	531.09	Joback Method
cpg	466.04	J/molxK	682.42	Joback Method
cpg	453.60	J/molxK	652.15	Joback Method
cpg	440.55	J/molxK	621.89	Joback Method
cpg	426.88	J/molxK	591.62	Joback Method
cpg	412.58	J/molxK	561.36	Joback Method

cpg	477.89	J/molxK	712.68	Joback Method
dvisc	0.0001638	Paxs	531.09	Joback Method
dvisc	0.0002201	Paxs	486.88	Joback Method
dvisc	0.0003138	Paxs	442.66	Joback Method
dvisc	0.0004840	Paxs	398.45	Joback Method
dvisc	0.0008318	Paxs	354.24	Joback Method
dvisc	0.0016682	Paxs	310.02	Joback Method
dvisc	0.0042170	Paxs	265.81	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=C68698599&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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