

Isopentyl 8-methylnon-6-enoate

Inchi:	InChI=1S/C15H28O2/c1-13(2)9-7-5-6-8-10-15(16)17-12-11-14(3)4/h7,9,13-14H,5-6,8,10
InchiKey:	YWFMHFBFSKQAMK-VQHVLOKHSA-N
Formula:	C15H28O2
SMILES:	CC(C)C=CCCCC(=O)OCCC(C)C
Mol. weight [g/mol]:	240.38
CAS:	1215128-16-7

Physical Properties

Property code	Value	Unit	Source
gf	-83.16	kJ/mol	Joback Method
hf	-491.07	kJ/mol	Joback Method
hfus	30.55	kJ/mol	Joback Method
hvap	57.32	kJ/mol	Joback Method
log10ws	-4.33		Crippen Method
logp	4.348		Crippen Method
mvol	225.350	ml/mol	McGowan Method
pc	1545.13	kPa	Joback Method
rinpol	1592.30		NIST Webbook
rinpol	1592.30		NIST Webbook
tb	622.17	K	Joback Method
tc	800.65	K	Joback Method
tf	295.89	K	Joback Method
vc	0.868	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	601.34	J/molxK	622.17	Joback Method
cpg	681.63	J/molxK	770.90	Joback Method
cpg	667.11	J/molxK	741.15	Joback Method
cpg	651.84	J/molxK	711.41	Joback Method
cpg	635.80	J/molxK	681.66	Joback Method
cpg	618.98	J/molxK	651.92	Joback Method
cpg	695.44	J/molxK	800.65	Joback Method

dvisc	0.0001019	Paxs	622.17	Joback Method
dvisc	0.0001417	Paxs	567.79	Joback Method
dvisc	0.0002114	Paxs	513.41	Joback Method
dvisc	0.0003466	Paxs	459.03	Joback Method
dvisc	0.0006492	Paxs	404.65	Joback Method
dvisc	0.0014772	Paxs	350.27	Joback Method
dvisc	0.0045474	Paxs	295.89	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=C1215128167&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
mvol:	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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