

Isoamyl mandelate

Other names:	Benzeneacetic acid, «alpha»-hydroxy-, 3-methylbutyl ester Atractyl Mandaverm Mandelic acid isoamyl ester Mandelic acid, isopentyl ester Spasmol Spasmostenyl Vermiparin Isopentyl alcohol, mandelate isopentyl phenylglycolate
Inchi:	InChI=1S/C13H18O3/c1-10(2)8-9-16-13(15)12(14)11-6-4-3-5-7-11/h3-7,10,12,14H,8-9H2
InchiKey:	KQQXUARABJGCMS-UHFFFAOYSA-N
Formula:	C13H18O3
SMILES:	CC(C)CCOC(=O)C(O)c1ccccc1
Mol. weight [g/mol]:	222.28
CAS:	5421-04-5

Physical Properties

Property code	Value	Unit	Source
gf	-204.63	kJ/mol	Joback Method
hf	-482.71	kJ/mol	Joback Method
hfus	23.30	kJ/mol	Joback Method
hvap	71.87	kJ/mol	Joback Method
log10ws	-2.71		Crippen Method
logp	2.309		Crippen Method
mcvol	183.580	ml/mol	McGowan Method
pc	2548.19	kPa	Joback Method
tb	691.11	K	Joback Method
tc	889.45	K	Joback Method
tf	365.67	K	Joback Method
vc	0.686	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	502.90	J/mol×K	691.11	Joback Method
cpg	516.31	J/mol×K	724.17	Joback Method
cpg	528.91	J/mol×K	757.22	Joback Method
cpg	540.72	J/mol×K	790.28	Joback Method
cpg	551.76	J/mol×K	823.34	Joback Method
cpg	562.05	J/mol×K	856.40	Joback Method
cpg	571.63	J/mol×K	889.45	Joback Method
dvisc	0.0043108	Paxs	365.67	Joback Method
dvisc	0.0011538	Paxs	419.91	Joback Method
dvisc	0.0004175	Paxs	474.15	Joback Method
dvisc	0.0001861	Paxs	528.39	Joback Method
dvisc	0.0000964	Paxs	582.63	Joback Method
dvisc	0.0000559	Paxs	636.87	Joback Method
dvisc	0.0000353	Paxs	691.11	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=C5421045&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
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
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/18-576-3/Isoamyl-mandelate.pdf>

Generated by Cheméo on 2024-04-30 00:52:22.923924428 +0000 UTC m=+16727591.844501740.

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