

2-methylpropiovanillone

Inchi:	InChI=1S/C11H14O3/c1-4-9(12)8-5-6-10(13)11(14-3)7(8)2/h5-6,13H,4H2,1-3H3
InchiKey:	ITMQIDBFFCXSCX-UHFFFAOYSA-N
Formula:	C11H14O3
SMILES:	CCC(=O)c1ccc(O)c(OC)c1C
Mol. weight [g/mol]:	194.23

Physical Properties

Property code	Value	Unit	Source
gf	-253.65	kJ/mol	Joback Method
hf	-478.89	kJ/mol	Joback Method
hfus	26.08	kJ/mol	Joback Method
hvap	65.85	kJ/mol	Joback Method
log10ws	-2.69		Crippen Method
logp	2.302		Crippen Method
mvol	155.400	ml/mol	McGowan Method
pc	3163.27	kPa	Joback Method
rinpol	1611.00		NIST Webbook
rinpol	1611.00		NIST Webbook
tb	644.63	K	Joback Method
tc	865.86	K	Joback Method
tf	449.07	K	Joback Method
vc	0.533	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	396.40	J/mol×K	644.63	Joback Method
cpg	408.86	J/mol×K	681.50	Joback Method
cpg	420.62	J/mol×K	718.37	Joback Method
cpg	431.71	J/mol×K	755.24	Joback Method
cpg	442.19	J/mol×K	792.11	Joback Method
cpg	452.10	J/mol×K	828.99	Joback Method
cpg	461.50	J/mol×K	865.86	Joback Method
dvisc	0.0003955	Paxs	449.07	Joback Method

dvisc	0.0002113	Paxs	481.66	Joback Method
dvisc	0.0001223	Paxs	514.26	Joback Method
dvisc	0.0000755	Paxs	546.85	Joback Method
dvisc	0.0000492	Paxs	579.44	Joback Method
dvisc	0.0000336	Paxs	612.04	Joback Method
dvisc	0.0000238	Paxs	644.63	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R490845&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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

Latest version available from:

<https://www.chemeo.com/cid/21-402-1/2-methylpropiovanillone.pdf>

Generated by Cheméo on 2024-04-19 20:46:11.518897672 +0000 UTC m=+15848820.439474985.

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