

Methyl dehydrogeraniate

Inchi:	InChI=1S/C11H16O2/c1-9(2)6-5-7-10(3)8-11(12)13-4/h5-8H,1-4H3/b7-5+,10-8+
InchiKey:	MUIMRDAQSNCVEQ-RMTFUQJ TSA-N
Formula:	C11H16O2
SMILES:	COC(=O)C=C(C)C=CC=C(C)C
Mol. weight [g/mol]:	180.24
CAS:	53771-48-5

Physical Properties

Property code	Value	Unit	Source
gf	31.38	kJ/mol	Joback Method
hf	-183.09	kJ/mol	Joback Method
hfus	25.02	kJ/mol	Joback Method
hvap	49.27	kJ/mol	Joback Method
log10ws	-2.85		Crippen Method
logp	2.628		Crippen Method
mcvol	160.390	ml/mol	McGowan Method
pc	2351.92	kPa	Joback Method
rinpol	1475.30		NIST Webbook
rinpol	1445.00		NIST Webbook
rinpol	1475.30		NIST Webbook
rinpol	1445.00		NIST Webbook
tb	539.61	K	Joback Method
tc	740.19	K	Joback Method
tf	242.73	K	Joback Method
vc	0.618	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	360.46	J/molxK	539.61	Joback Method
cpg	374.67	J/molxK	573.04	Joback Method
cpg	388.08	J/molxK	606.47	Joback Method
cpg	400.75	J/molxK	639.90	Joback Method
cpg	412.71	J/molxK	673.33	Joback Method

cpg	424.02	J/mol×K	706.76	Joback Method
cpg	434.72	J/mol×K	740.19	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=C53771485&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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