

Formic acid, (2-methylphenyl)methyl ester

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

InChI=1S/C9H10O2/c1-8-4-2-3-5-9(8)6-11-7-10/h2-5,7H,6H2,1H3

HPSRCRQFUTWGJS-UHFFFAOYSA-N

C9H10O2

Cc1ccccc1COC=O

150.17

Physical Properties

Property code	Value	Unit	Source
gf	-76.84	kJ/mol	Joback Method
hf	-221.83	kJ/mol	Joback Method
hfus	16.20	kJ/mol	Joback Method
hvap	47.70	kJ/mol	Joback Method
log10ws	-2.11		Crippen Method
logp	1.668		Crippen Method
mcvol	121.350	ml/mol	McGowan Method
pc	3423.86	kPa	Joback Method
rinpol	1201.00		NIST Webbook
rinpol	1201.00		NIST Webbook
tb	508.06	K	Joback Method
tc	719.99	K	Joback Method
tf	294.36	K	Joback Method
vc	0.467	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	257.62	J/mol×K	508.06	Joback Method
cpg	310.99	J/mol×K	684.67	Joback Method
cpg	301.51	J/mol×K	649.35	Joback Method
cpg	291.44	J/mol×K	614.02	Joback Method
cpg	280.78	J/mol×K	578.70	Joback Method
cpg	269.51	J/mol×K	543.38	Joback Method
cpg	319.90	J/mol×K	719.99	Joback Method
dvisc	0.0002417	Pa×s	508.06	Joback Method

dvisc	0.0002999	Pa×s	472.44	Joback Method
dvisc	0.0003855	Pa×s	436.83	Joback Method
dvisc	0.0005181	Pa×s	401.21	Joback Method
dvisc	0.0007377	Pa×s	365.59	Joback Method
dvisc	0.0011334	Pa×s	329.98	Joback Method
dvisc	0.0019322	Pa×s	294.36	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U368933&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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
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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