

Formic acid, 2-methylbutyl ester

Inchi:

InChI=1S/C6H12O2/c1-3-6(2)4-8-5-7/h5-6H,3-4H2,1-2H3

InchiKey:

DWORILFBIRYUDC-UHFFFAOYSA-N

Formula:

C6H12O2

SMILES:

CCC(C)COC=O

Mol. weight [g/mol]:

116.16

Physical Properties

Property code	Value	Unit	Source
gf	-207.32	kJ/mol	Joback Method
hf	-390.25	kJ/mol	Joback Method
hfus	11.25	kJ/mol	Joback Method
hvap	37.69	kJ/mol	Joback Method
log10ws	-0.95		Crippen Method
logp	1.205		Crippen Method
mcvol	102.840	ml/mol	McGowan Method
pc	3345.11	kPa	Joback Method
rinpol	805.00		NIST Webbook
tb	407.32	K	Joback Method
tc	583.97	K	Joback Method
tf	206.61	K	Joback Method
vc	0.401	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	201.69	J/mol×K	407.32	Joback Method
cpg	211.53	J/mol×K	436.76	Joback Method
cpg	221.04	J/mol×K	466.20	Joback Method
cpg	230.24	J/mol×K	495.64	Joback Method
cpg	239.12	J/mol×K	525.08	Joback Method
cpg	247.68	J/mol×K	554.53	Joback Method
cpg	255.92	J/mol×K	583.97	Joback Method
dvisc	0.0052383	Pa×s	206.61	Joback Method
dvisc	0.0022883	Pa×s	240.06	Joback Method

dvisc	0.0012241	Pa×s	273.51	Joback Method
dvisc	0.0007505	Pa×s	306.97	Joback Method
dvisc	0.0005066	Pa×s	340.42	Joback Method
dvisc	0.0003668	Pa×s	373.87	Joback Method
dvisc	0.0002801	Pa×s	407.32	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U367911&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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

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