

2-Methoxy ethyl formate

Inchi:	InChI=1S/C4H8O3/c1-6-2-3-7-4-5/h4H,2-3H2,1H3
InchiKey:	HVSACIINGLQLCS-UHFFFAOYSA-N
Formula:	C4H8O3
SMILES:	COCCOC=O
Mol. weight [g/mol]:	104.10
CAS:	628-82-0

Physical Properties

Property code	Value	Unit	Source
gf	-326.72	kJ/mol	Joback Method
hf	-475.91	kJ/mol	Joback Method
hfl	-565.30 ± 7.70	kJ/mol	NIST Webbook
hfus	10.78	kJ/mol	Joback Method
hvap	43.50 ± 4.20	kJ/mol	NIST Webbook
log10ws	0.55		Crippen Method
logp	-0.194		Crippen Method
mcvol	80.530	ml/mol	McGowan Method
pc	4098.62	kPa	Joback Method
tb	384.42	K	Joback Method
tc	558.87	K	Joback Method
tf	221.30	K	Joback Method
vc	0.312	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	151.73	J/mol×K	384.42	Joback Method
cpg	183.20	J/mol×K	529.79	Joback Method
cpg	177.15	J/mol×K	500.72	Joback Method
cpg	170.97	J/mol×K	471.64	Joback Method
cpg	164.66	J/mol×K	442.57	Joback Method
cpg	158.24	J/mol×K	413.49	Joback Method
cpg	189.12	J/mol×K	558.87	Joback Method
dvisc	0.0002652	Paxs	384.42	Joback Method

dvisc	0.0003313	Paxs	357.23	Joback Method
dvisc	0.0004293	Paxs	330.05	Joback Method
dvisc	0.0005828	Paxs	302.86	Joback Method
dvisc	0.0008403	Paxs	275.67	Joback Method
dvisc	0.0013127	Paxs	248.49	Joback Method
dvisc	0.0022881	Paxs	221.30	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=C628820&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
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfl:	Liquid phase 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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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