

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	m3/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	Pa×s	384.42	Joback Method

dvisc	0.0003313	Pa×s	357.23	Joback Method
dvisc	0.0004293	Pa×s	330.05	Joback Method
dvisc	0.0005828	Pa×s	302.86	Joback Method
dvisc	0.0008403	Pa×s	275.67	Joback Method
dvisc	0.0013127	Pa×s	248.49	Joback Method
dvisc	0.0022881	Pa×s	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

Latest version available from:

<https://www.chemeo.com/cid/80-737-5/2-Methoxy-ethyl-formate.pdf>

Generated by Cheméo on 2025-12-21 21:26:55.673523661 +0000 UTC m=+6100613.203564315.

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