

4-METHOXY-2-BUTANONE

Inchi:	InChI=1S/C5H10O2/c1-5(6)3-4-7-2/h3-4H2,1-2H3
InchiKey:	DRWOJIIXBYPNGGW-UHFFFAOYSA-N
Formula:	C5H10O2
SMILES:	COCCC(C)=O
Mol. weight [g/mol]:	102.13

Physical Properties

Property code	Value	Unit	Source
af	0.4054		Cheméo Relay (1.0)
gf	-242.70	kJ/mol	Joback Method
hf	-375.20	kJ/mol	Cheméo Relay (1.0)
hfus	11.49	kJ/mol	Joback Method
hvap	43.18	kJ/mol	Cheméo Relay (1.0)
ie	9.37	eV	NIST Webbook
log10ws	0.94		Cheméo Relay (1.0)
logp	0.612		Crippen Method
mcvol	88.750	ml/mol	McGowan Method
pc	3664.21	kPa	Joback Method
tb	413.53	K	Cheméo Relay (1.0)
tc	581.93	K	Cheméo Relay (1.0)
tf	209.32	K	Cheméo Relay (1.0)
vc	0.315	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	163.46	J/mol×K	390.09	Joback Method
cpg	210.46	J/mol×K	568.66	Joback Method
cpg	203.26	J/mol×K	538.90	Joback Method
cpg	195.80	J/mol×K	509.14	Joback Method
cpg	188.08	J/mol×K	479.38	Joback Method
cpg	180.12	J/mol×K	449.61	Joback Method
cpg	171.91	J/mol×K	419.85	Joback Method
dvisc	0.0006307	Pa×s	304.18	Joback Method

dvisc	0.0002744	Pa×s	390.09	Joback Method
dvisc	0.0003466	Pa×s	361.45	Joback Method
dvisc	0.0004556	Pa×s	332.82	Joback Method
dvisc	0.0027914	Pa×s	218.27	Joback Method
dvisc	0.0009341	Pa×s	275.54	Joback Method
dvisc	0.0015155	Pa×s	246.91	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C6975855&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	

Legend

af:	Acentric Factor
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
ie:	Ionization energy
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/62-762-7/4-METHOXY-2-BUTANONE.pdf>

Generated by Cheméo on 2026-07-21 17:53:04.191643756 +0000 UTC m=+167480.033529146.

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