

Butanoic acid, 4-butoxy-

Inchi:	InChI=1S/C8H16O3/c1-2-3-6-11-7-4-5-8(9)10/h2-7H2,1H3,(H,9,10)
InchiKey:	IZNAUZVEFQFMON-UHFFFAOYSA-N
Formula:	C8H16O3
SMILES:	CCCCOCCCC(=O)O
Mol. weight [g/mol]:	160.21
CAS:	55724-73-7

Physical Properties

Property code	Value	Unit	Source
gf	-354.26	kJ/mol	Joback Method
hf	-605.48	kJ/mol	Joback Method
hfus	23.35	kJ/mol	Joback Method
hvap	59.24	kJ/mol	Joback Method
log10ws	-1.36		Crippen Method
logp	1.668		Crippen Method
mcvol	136.890	ml/mol	McGowan Method
pc	2928.17	kPa	Joback Method
tb	550.91	K	Joback Method
tc	719.50	K	Joback Method
tf	312.90	K	Joback Method
vc	0.526	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	333.34	J/mol×K	550.91	Joback Method
cpg	344.09	J/mol×K	579.01	Joback Method
cpg	354.43	J/mol×K	607.11	Joback Method
cpg	364.37	J/mol×K	635.20	Joback Method
cpg	373.90	J/mol×K	663.30	Joback Method
cpg	383.03	J/mol×K	691.40	Joback Method
cpg	391.77	J/mol×K	719.50	Joback Method
dvisc	0.0085716	Pa×s	312.90	Joback Method
dvisc	0.0027599	Pa×s	352.57	Joback Method

dvisc	0.0011176	Pa×s	392.24	Joback Method
dvisc	0.0005343	Pa×s	431.90	Joback Method
dvisc	0.0002892	Pa×s	471.57	Joback Method
dvisc	0.0001722	Pa×s	511.24	Joback Method
dvisc	0.0001105	Pa×s	550.91	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C55724737&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
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/10-956-9/Butanoic-acid-4-butoxy.pdf>

Generated by Cheméo on 2025-12-23 01:47:25.859985707 +0000 UTC m=+6202643.390026361.

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