4-AMINOBUTYRALDEHYDE DIETHYL ACETAL

Other names: 1-Butanamine, 4,4-diethoxy-
4-Aminobutyralodehyde diethyl ester
4,4-diethoxybutylamine
Inchi: InChI=1S/C8H19NO2/c1-3-10-8(11-4-2)6-5-7-9/h8H,3-7,9H2,1-2H3
InchiKey: GFLPSABXBDCMCN-UHFFFAOYSA-N
Formula: C8H19NO2
SMILES: CCOC(CCCN)OCC
Mol. weight [g/mol]: 161.25

Physical Properties

Property code	Value	Unit	Source
hfus	20.53	kJ/mol	Joback Method
logp	1.124		Crippen Method
mcvol	145.300	ml/mol	McGowan Method
tb	469.20	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	342.87	J/mol×K	499.37	Joback Method
cpg	356.37	J/mol×K	529.33	Joback Method
cpg	369.40	J/mol×K	559.29	Joback Method
cpg	381.96	J/mol×K	589.26	Joback Method
cpg	394.05	J/mol×K	619.22	Joback Method
cpg	405.66	J/mol×K	649.18	Joback Method
cpg	416.80	J/mol×K	679.14	Joback Method

Sources

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):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C6346094&Units=SI

Legend

cpg:	Ideal gas heat capacity
hfus:	Enthalpy of fusion at standard conditions
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tb:	Normal Boiling Point Temperature