

4-Ethoxy-3-anisaldehyde

Other names:	4-Ethoxy-3-methoxybenzaldehyde 4-Ethoxy-m-anisaldehyde Benzaldehyde, 4-ethoxy-3-methoxy-
Inchi:	InChI=1S/C10H12O3/c1-3-13-9-5-4-8(7-11)6-10(9)12-2/h4-7H,3H2,1-2H3
InchiKey:	BERFDQAMXIBOHM-UHFFFAOYSA-N
Formula:	C10H12O3
SMILES:	CCOc1ccc(C=O)cc1OC
Mol. weight [g/mol]:	180.20
CAS:	120-25-2

Physical Properties

Property code	Value	Unit	Source
gf	-183.05	kJ/mol	Joback Method
hf	-386.16	kJ/mol	Joback Method
hfus	19.58	kJ/mol	Joback Method
hvap	52.99	kJ/mol	Joback Method
log10ws	-2.19		Aqueous Solubility Prediction Method
logp	1.906		Crippen Method
mcvol	141.310	ml/mol	McGowan Method
pc	2963.34	kPa	Joback Method
tb	558.34	K	Joback Method
tc	765.95	K	Joback Method
tf	335.90	K	Aqueous Solubility Prediction Method
vc	0.540	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	324.53	J/molxK	558.34	Joback Method
cpg	336.96	J/molxK	592.94	Joback Method
cpg	348.82	J/molxK	627.54	Joback Method
cpg	360.10	J/molxK	662.14	Joback Method

cpg	370.79	J/molxK	696.75	Joback Method
cpg	380.90	J/molxK	731.35	Joback Method
cpg	390.40	J/molxK	765.95	Joback Method
dvisc	0.0011812	Paxs	340.38	Joback Method
dvisc	0.0007465	Paxs	376.71	Joback Method
dvisc	0.0005114	Paxs	413.03	Joback Method
dvisc	0.0003725	Paxs	449.36	Joback Method
dvisc	0.0002845	Paxs	485.69	Joback Method
dvisc	0.0002255	Paxs	522.01	Joback Method
dvisc	0.0001843	Paxs	558.34	Joback Method

Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C120252&Units=SI>

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

Joback Method: https://en.wikipedia.org/wiki/Joback_method

Aqueous Solubility Prediction Method: <http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa>

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
mccol:	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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