

3-Ethoxy-4-methoxyphenylacetonitrile

Inchi:	InChI=1S/C11H13NO2/c1-3-14-11-8-9(6-7-12)4-5-10(11)13-2/h4-5,8H,3,6H2,1-2H3
InchiKey:	DULUKHADKMYILX-UHFFFAOYSA-N
Formula:	C11H13NO2
SMILES:	CCOc1cc(CC#N)ccc1OC
Mol. weight [g/mol]:	191.23
CAS:	103796-99-2

Physical Properties

Property code	Value	Unit	Source
gf	58.07	kJ/mol	Joback Method
hf	-156.34	kJ/mol	Joback Method
hfus	21.39	kJ/mol	Joback Method
hvap	58.98	kJ/mol	Joback Method
log10ws	-2.80		Crippen Method
logp	2.160		Crippen Method
mcvol	155.210	ml/mol	McGowan Method
pc	2421.88	kPa	Joback Method
tb	634.64	K	Joback Method
tc	850.55	K	Joback Method
tf	374.64	K	Joback Method
vc	0.606	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	380.69	J/mol×K	634.64	Joback Method
cpg	393.20	J/mol×K	670.62	Joback Method
cpg	405.04	J/mol×K	706.61	Joback Method
cpg	416.20	J/mol×K	742.59	Joback Method
cpg	426.67	J/mol×K	778.58	Joback Method
cpg	436.45	J/mol×K	814.56	Joback Method
cpg	445.54	J/mol×K	850.55	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C103796992&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

Legend

cpg:	Ideal gas heat capacity
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

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