

Benzene, 1-ethoxy-2-nitro-

Other names:	Phenetole, o-nitro- o-Nitrophenetole Ethyl o-nitrophenyl ether 1-Ethoxy-2-nitrobenzene 2-Nitrophenetole
Inchi:	InChI=1S/C8H9NO3/c1-2-12-8-6-4-3-5-7(8)9(10)11/h3-6H,2H2,1H3
InchiKey:	XGLGESCUNJSAQY-UHFFFAOYSA-N
Formula:	C8H9NO3
SMILES:	CCOc1ccccc1[N+](=O)[O-]
Mol. weight [g/mol]:	167.16
CAS:	610-67-3

Physical Properties

Property code	Value	Unit	Source
gf	49.81	kJ/mol	Joback Method
hf	-126.37	kJ/mol	Joback Method
hfus	22.68	kJ/mol	Joback Method
hvap	55.34	kJ/mol	Joback Method
log10ws	-2.66		Crippen Method
logp	1.994		Crippen Method
mcvol	123.110	ml/mol	McGowan Method
pc	3564.27	kPa	Joback Method
tb	540.20	K	NIST Webbook
tc	829.28	K	Joback Method
tf	384.70	K	Joback Method
vc	0.475	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	287.63	J/molxK	588.36	Joback Method
cpg	299.65	J/molxK	628.51	Joback Method
cpg	310.86	J/molxK	668.67	Joback Method
cpg	321.29	J/molxK	708.82	Joback Method

cpg	330.96	J/mol×K	748.97	Joback Method
cpg	339.88	J/mol×K	789.13	Joback Method
cpg	348.07	J/mol×K	829.28	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C610673&Units=SI

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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