

Benzene, 1,2-dimethyl-3-nitro-

Other names: 1,2-Dimethyl-3-nitrobenzene

2,3-Dimethylnitrobenzene

3-Nitro-o-xylene

o-Xylene, 3-nitro-

Inchi: InChI=1S/C8H9NO2/c1-6-4-3-5-8(7(6)2)9(10)11/h3-5H,1-2H3

InchiKey: FVHAWXWFPBPFOS-UHFFFAOYSA-N

Formula: C8H9NO2

SMILES: Cc1ccccc([N+](=O)[O-])c1C

Mol. weight [g/mol]: 151.16

CAS: 83-41-0

Physical Properties

Property code	Value	Unit	Source
ea	0.92 ± 0.05	eV	NIST Webbook
ea	0.85 ± 0.10	eV	NIST Webbook
gf	145.18	kJ/mol	Joback Method
hf	-5.62	kJ/mol	Joback Method
hfus	21.10	kJ/mol	Joback Method
hvap	53.59	kJ/mol	Joback Method
log10ws	-3.07		Crippen Method
logp	2.212		Crippen Method
mcvol	117.240	ml/mol	McGowan Method
pc	3572.80	kPa	Joback Method
tb	518.20	K	NIST Webbook
tc	816.66	K	Joback Method
tf	287.40 ± 1.00	K	NIST Webbook
vc	0.458	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	316.17	J/mol×K	775.71	Joback Method
cpg	264.31	J/mol×K	570.92	Joback Method
cpg	276.23	J/mol×K	611.88	Joback Method

log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
pvap:	Vapor pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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