Benzenamine, 2-methoxy-4-nitro-

Other names:

o-Anisidine, 4-nitro-
p-Nitro-o-anisidine
Amarthol fast red b base
Azoamine pink o
Azoene fast red b base
Brentamine fast red B base
c.i. Azoic diazo component 5
c.i. 37125
Dainichi fast red B base
Daito red base B
Devol red E
Diabase red B
Diazo fast red B
Fast red B
Fast red b base
Fast red base b
Fast red 5na base
Hiltonil fast red b base
Kako red b base
Kayaku red b base
Mitsui red b base
Naphthanil red b base
Naphtoelan red b base
PNOA
Red b base
Red base ciba v
Red base irga v
Red base nb
Sanyo fast red b base
Shinnippon fast red b base
Showa fast red b base
Symulon red b base
2-Amino-5-nitroanisole
2-Methoxy-4-nitroaniline
4-Amino-3-methoxynitrobenzene
4-Nitro-o-anisidine
4-Nitro-6-methoxyaniline
5-Nitro-2-anisidine
Anisole, 2-amino-5-nitro-
Azoic diazo component 5, base

	2-Amino-1-methoxy-5-nitrobenzene
	2-Amino-5-nitroanisol
	Aniline, 2-methoxy-4-nitro-
	Naphthoelan red B base
	Fast Red B-T Base
	3-Nitro-6-aminoanisole
	2-Methoxy-4-nitrobenzenamine
Inchi:	InChI=1S/C7H8N2O3/c1-12-7-4-5(9(10)11)2-3-6(7)8/h2-4H,8H2,1H3
InchiKey:	GVBHRNIWBGTNQA-UHFFFAOYSA-N
Formula:	C7H8N2O3
SMILES:	COc1cc([N+](=O)[O-])ccc1N
Mol. weight [g/mol]:	168.15
CAS:	97-52-9

Physical Properties

Property code	Value	Unit	Source
chs	-3701.00 ± 0.96	kJ/mol	NIST Webbook
gf	98.21	kJ/mol	Joback Method
hf	-83.41	kJ/mol	Joback Method
hfs	-197.00	kJ/mol	NIST Webbook
hfus	24.89	kJ/mol	Joback Method
hvap	64.42	kJ/mol	Joback Method
log10ws	-1.88		Crippen Method
logp	1.186		Crippen Method
mcvol	119.000	ml/mol	McGowan Method
pc	4233.04	kPa	Joback Method
tb	642.99	K	Joback Method
tc	896.92	K	Joback Method
tf	469.21	K	Joback Method
vc	0.449	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	291.35	J/mol×K	642.99	Joback Method
cpg	301.87	J/mol×K	685.31	Joback Method
cpg	311.62	J/mol×K	727.63	Joback Method

cpg	320.60	J/mol×K	769.95	Joback Method
cpg	328.83	J/mol×K	812.28	Joback Method
cpg	336.32	J/mol×K	854.60	Joback Method
cpg	343.08	J/mol×K	896.92	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C97529&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

chs:	Standard solid enthalpy of combustion
cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfs:	Solid phase 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