Benzenamine, 4-chloro-2-nitro-

Other names:

Aniline, 4-chloro-2-nitro-
p-Chloro-o-nitroaniline
Azoene Fast Red 3GL Base
C.I. Azoic Diazo Component 9
C.I. 37040
Daito Red Base 3GL
Devol Red F
Diazo Fast Red 3GL
Fast Red Base 3JL
Fast Red 2NC Base
Fast Red 3GL Base
Fast Red 3GL Special Base
Hiltonil Fast Red 3GL Base
Kayaku Fast Red 3GL Base
Mitsui Red 3GL Base
Naphthanil Red 3G Base
Naphtoelan Fast Red 3GL Base
PCON
PCONA
Red Base Ciba VI
Red Base Irga VI
Red Base 3GL
Red 3G Base
Shinnippon Fast Red 3GL Base
2-Nitro-4-chloroaniline
4-Chloro-2-nitroaniline
Azoene Fast Red 3GL Salt
Azofix Red 3GL Salt
Azoic diazo component 9, base
Daito Red Salt 3GL
Devol Red Salt F
Fast Red Base 3GL Special
Fast Red Salt 3GL
Fast Red Salt 3JL
Fast Red 2NC Salt
Fast Red 3GL Salt
Fast Red 3GL Special Salt
Hiltosal Fast Red 3GL Salt
Kayaku Red Salt 3GL
Mitsui Red 3GL Salt

	Naphtoelan Fast Red 3GL Salt
	Red Salt Ciba VI
	Red Salt Irga VI
	Red Salt NBGL
	Red 3G Salt
	Red 3GS Salt
	Sanyo Fast Red Salt 3GL
	Symulon Red 3GL Salt
	NCI-C60355
	4-Chloro-2-nitrobenzenamine
Inchi:	InChI=1S/C6H5ClN2O2/c7-4-1-2-5(8)6(3-4)9(10)11/h1-3H,8H2
InchiKey:	PBGKNXWGYQPUJK-UHFFFAOYSA-N
Formula:	C6H5ClN2O2
SMILES:	Nc1ccc(Cl)cc1[N+](=O)[O-]
Mol. weight [g/mol]:	172.57
CAS:	89-63-4

Physical Properties

Property code	Value	Unit	Source
gf	182.86	kJ/mol	Joback Method
hf	53.71	kJ/mol	Joback Method
hfus	25.31	kJ/mol	Joback Method
hvap	64.17	kJ/mol	Joback Method
log10ws	-2.44		Crippen Method
logp	1.830		Crippen Method
mcvol	111.280	ml/mol	McGowan Method
pc	4684.89	kPa	Joback Method
rinpol	1538.00		NIST Webbook
tb	635.12	K	Joback Method
tc	902.71	K	Joback Method
tf	465.63	K	Joback Method
vc	0.423	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	243.95	J/mol×K	635.12	Joback Method

cpg	252.54	J/mol×K	679.72	Joback Method
cpg	260.38	J/mol×K	724.32	Joback Method
cpg	267.52	J/mol×K	768.91	Joback Method
cpg	273.99	J/mol×K	813.51	Joback Method
cpg	279.84	J/mol×K	858.11	Joback Method
cpg	285.10	J/mol×K	902.71	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C89634&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume