N-(4-CHLOROPHENYL)-1,2-PHENYLENEDIAMINE

Other names: 1,2-Benzenediamine, N-(4-chlorophenyl)-
N-(4-chlorophenyl)benzene-1,2-diamine
Inchi: InChI=1S/C12H11ClN2/c13-9-5-7-10(8-6-9)15-12-4-2-1-3-11(12)14/h1-8,15H,14H2
InchiKey: WEUBIWJPIRTWDF-UHFFFAOYSA-N
Formula: C12H11ClN2
SMILES: Nc1ccccc1Nc1ccc(Cl)cc1
Mol. weight [g/mol]: 218.69

Physical Properties

Property code	Value	Unit	Source
hfus	28.63	kJ/mol	Joback Method
logp	3.666		Crippen Method
mcvol	164.620	ml/mol	McGowan Method
tb	628.59	K	Cheméo Relay (1.0)
tf	386.74	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	406.30	J/mol×K	697.41	Joback Method
cpg	419.32	J/mol×K	740.50	Joback Method
cpg	431.21	J/mol×K	783.59	Joback Method
cpg	442.03	J/mol×K	826.68	Joback Method
cpg	451.87	J/mol×K	869.77	Joback Method
cpg	460.80	J/mol×K	912.86	Joback Method
cpg	468.91	J/mol×K	955.95	Joback Method

Sources

Joback Method: https://en.wikipedia.org/wiki/Joback_method
McGowan Method: http://link.springer.com/article/10.1007/BF02311772

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C68817710&Units=SI

Legend

cpg:	Ideal gas heat capacity
hfus:	Enthalpy of fusion at standard conditions
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point