9,10-Anthracenedione, 1-amino-4-hydroxy-

Other names:

Anthraquinone, 1-amino-4-hydroxy-
Acetate Fast Red 2B
Acetoquinone Light Gooseberry RL
Acetylon Fast Pink B
Amacel Pink B
Artisil Direct Red 3BP
Artisil Red 3BP
C.I. Disperse Red 15
C.I. 60710
Calcosyn Pink B
Celanthrene Red 3BN
Celliton Fast Pink BA-CF
Celliton Fast Pink BN
Celutate Pink B
Celutate Pink BN
Celutate Pink BY
Cibacet Red E3B
Cibacet Red 3B
Cibacete Red 3B
Cilla Fast Pink BN
Diacelliton Fast Pink B
Disperse Fast Pink B
Disperse Red 15
Disperse Red 2S
Duranol Red 2B
Fenacet Fast Pink B
Interchem Acetate Pink BLF
Interchem Hisperse Pink BH
Microsetile Pink BN
Nacelan Pink B
Neosetile Pink BN
Para M
Perliton Pink 3B
Serisol Fast Red 2B
Setacyl Pink 3B
Supracet Brilliant Red 2B
1-Amino-4-hydroxyanthraquinone
4-Amino-1-hydroxyanthraquinone
1-Amino-4-oxyanthraquinone
1-Hydroxy-4-aminoanthraquinone

	1a-4oa
	4-Hydroxy-1-anthraquinonylamine
	Cerven disperzni 15
	C.I. Solvent red 53
	Disperse red 25
	Dispersol orange D-G
	Oracet red 3B
	NSC 1485
Inchi:	InChI=1S/C14H9NO3/c15-9-5-6-10(16)12-11(9)13(17)7-3-1-2-4-8(7)14(12)18/h1-6,16H,1
InchiKey:	AQXYVFBSOOBBQV-UHFFFAOYSA-N
Formula:	C14H9NO3
SMILES:	Nc1ccc(O)c2c1C(=O)c1ccccc1C2=O
Mol. weight [g/mol]:	239.23
CAS:	116-85-8

Physical Properties

Property code	Value	Unit	Source
gf	10.14	kJ/mol	Joback Method
hf	-213.26	kJ/mol	Joback Method
hfus	28.10	kJ/mol	Joback Method
hvap	85.49	kJ/mol	Joback Method
log10ws	-2.82		Crippen Method
logp	1.750		Crippen Method
mcvol	168.730	ml/mol	McGowan Method
pc	4266.28	kPa	Joback Method
tb	883.95	K	Joback Method
tc	1166.09	K	Joback Method
tf	695.06	K	Joback Method
vc	0.579	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	538.75	J/mol×K	1072.04	Joback Method
cpg	548.38	J/mol×K	1119.06	Joback Method
cpg	495.99	J/mol×K	883.95	Joback Method
cpg	507.57	J/mol×K	930.97	Joback Method

cpg	518.48	J/mol×K	978.00	Joback Method
cpg	528.83	J/mol×K	1025.02	Joback Method
cpg	557.85	J/mol×K	1166.09	Joback Method
hsubt	131.30	kJ/mol	428.00	NIST Webbook
hsubt	144.00	kJ/mol	458.50	NIST Webbook

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C116858&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

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
hsubt:	Enthalpy of sublimation at a given temperature
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