9,10-Anthracenedione, 1,4-diamino-

Other names:

Acetate Red Violet R
Acetoquinone Light Heliotrope NL
Acetylon Fast Red Violet R
Amacel Heliotrope R
Amaplast Red Violet P 2R
Anthraquinone, 1,4-diamino-
Artisil Direct Violet 2RP
Artisil Violet 2RP
Celanthrene Red Violet R
Celliton Fast Red Violet
Celliton Fast Red Violet RN
Celliton Fast Red Violet RNA-CF
Celliton Fast Violet R
Celliton Red Violet RN
Celutate Red Violet RH
Cibacete Violet 2R
Cibacet Violet E 2R
Cibacet Violet 2R
Cilla Fast Red Violet RN
C.I. 61100
C.I. Disperse Violet 1
C.I. Solvent Violet 11
Diacelliton Fast Violet 5R
1,4-Diaminoanthraquinone
1,4-Diamino-9,10-anthraquinone
Disperse Violet K
Duranol Violet 2R
Fenacet Fast Violet 5R
Gracet Violet 2R
Grasol Violet R
Interchem Acetate Red Violet RRLF
Interchem Acetate Violet R
Interchem Hisperse Violet 2RH
Krisolamine
Microsetile Violet 3R
Miketon Fast Red Violet R
Nacelan Violet 4R
NSC 7833
C.I. Disperse Violet 9
Dispersive Violet K

Duranol Violet 2R, 1,4-diamino-
Lurafix Red Violet RN
Mideton Fast Red Violet R
Nyloquinone Violet R
Oil Violet R
Oracet Violet 2R
Perliton Violet 3R
Resiren Violet TR
Seacyl Violet R
Sectacyl Violet propyl
Serisol Brilliant Violet 2R
Setacyl Violet P-R
Setacyl Violet R
Setile Violet 3R
Solvent Violet 11
Supracet Brilliant Violet 3R
1,4-Anthraquinonyldiamine
1,4-Diaminoanthrachinon
Celliton Fast Red Violet R
Transetile violet P 3R
Sudan Violet
Disperse Violet 1

Inchi: InChI=1S/C14H10N2O2/c15-9-5-6-10(16)12-11(9)13(17)7-3-1-2-4-8(7)14(12)18/h1-6H,1

InchiKey: FBMQNRKSAWNXBT-UHFFFAOYSA-N

Formula: C14H10N2O2

SMILES: Nc1ccc(N)c2c1C(=O)c1ccccc1C2=O

Mol. weight [g/mol]: 238.24

CAS: 128-95-0

Physical Properties

Property code	Value	Unit	Source
gf	221.58	kJ/mol	Joback Method
hf	-13.63	kJ/mol	Joback Method
hfus	27.12	kJ/mol	Joback Method
hvap	83.78	kJ/mol	Joback Method
log10ws	-2.90		Crippen Method
logp	1.626		Crippen Method
mcvol	172.840	ml/mol	McGowan Method
pc	3727.11	kPa	Joback Method
tb	880.84	K	Joback Method

tc	1161.76	K	Joback Method
tf	484.00 ± 1.00	K	NIST Webbook
vc	0.641	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	507.63	J/mol×K	880.84	Joback Method
cpg	518.91	J/mol×K	927.66	Joback Method
cpg	528.94	J/mol×K	974.48	Joback Method
cpg	537.75	J/mol×K	1021.30	Joback Method
cpg	545.39	J/mol×K	1068.12	Joback Method
cpg	551.89	J/mol×K	1114.94	Joback Method
cpg	557.29	J/mol×K	1161.76	Joback Method
hfust	24.20	kJ/mol	484.20	NIST Webbook
hsubt	123.00	kJ/mol	513.00	NIST Webbook
hsubt	151.20	kJ/mol	461.00	NIST Webbook
hsubt	102.60 ± 9.70	kJ/mol	390.50	NIST Webbook

Sources

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
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C128950&Units=SI

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
hfust: Enthalpy of fusion at a given temperature
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