Disperse Red 11

Other names:

9,10-Anthracenedione, 1,4-diamino-2-methoxy-
Acetate Fast Pink 3B
Amacel Cerise B
Anthraquinone, 1,4-diamino-2-methoxy-
Artisil Brilliant Rose 5BP
C.I. Disperse Red 11
C.I. Solvent Violet 26
C.I. 11/52015
C.I. 62015
Celanthrene Fast Pink 3B
Celliton Fast Pink FF3B
Celliton Fast Pink FF3BA-CF
Celliton Rose FF3B
Cibacet Brilliant Pink 4BN
Cibacete Brilliant Pink 4BN
Cilla Fast Pink FF3B
Disperse Brilliant Pink
Dispersol Red B 3B
Duranol Red X 3B
Fenacet Fast Pink 3BE
Interchem Acetate Pink 3B
Miketon Fast Pink FF 3B
Nacelan Pink 3B
Palanil Violet 6R
Perliton Red Violet FFB
Samaron Red Violet F3B
Seriplas Red X3B
Serisol Brilliant Red X 3B
Setacyl Red P-3B
Solvent Violet 26
Supracet Fast Pink 3B
Teraprint Red 6B
Terasil Brilliant Pink 4BN
1,4-Da-2-moa
1,4-Diamino-2-methoxyanthraquinone
1,4-Diamino-2-methoxyanthroquinone
Cerven disperzni 11
Disperse Brilliant Rose
Violet rozpoustedlova 26
NSC 81266

	1,4-Diamino-2-methoxyanthra-9,10-quinone
Inchi:	InChI=1S/C15H12N2O3/c1-20-10-6-9(16)11-12(13(10)17)15(19)8-5-3-2-4-7(8)14(11)18/h
InchiKey:	TUXJTJITXCHUEL-UHFFFAOYSA-N
Formula:	C15H12N2O3
SMILES:	COc1cc(N)c2c(c1N)C(=O)c1ccccc1C2=O
Mol. weight [g/mol]:	268.27
CAS:	2872-48-2

Physical Properties

Property code	Value	Unit	Source
gf	115.37	kJ/mol	Joback Method
hf	-177.96	kJ/mol	Joback Method
hfus	30.51	kJ/mol	Joback Method
hvap	89.08	kJ/mol	Joback Method
log10ws	-3.02		Crippen Method
logp	1.635		Crippen Method
mcvol	192.800	ml/mol	McGowan Method
pc	3206.41	kPa	Joback Method
tb	931.12	K	Joback Method
tc	1201.85	K	Joback Method
tf	515.00 ± 1.00	K	NIST Webbook
vc	0.716	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	624.13	J/mol×K	1156.73	Joback Method
cpg	585.27	J/mol×K	931.12	Joback Method
cpg	595.91	J/mol×K	976.24	Joback Method
cpg	605.12	J/mol×K	1021.36	Joback Method
cpg	612.90	J/mol×K	1066.48	Joback Method
cpg	619.24	J/mol×K	1111.61	Joback Method
cpg	627.58	J/mol×K	1201.85	Joback Method
hfust	35.29	kJ/mol	515.20	NIST Webbook

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2872482&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
hfust:	Enthalpy of fusion 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