

# 9,10-Anthracenedione, 1,4-bis(methylamino)-

**Other names:**

Acetate Blue B  
Anthraquinone, 1,4-bis(methylamino)-  
Artisil Blue BRP  
1,4-Bis(methylamino)anthraquinone  
1,4-Bis(methylamino)-9,10-anthraquinone  
Celliton Fast Blue B  
Cibacet Blue BR  
Cilla Fast Blue B  
C.I. 61500  
C.I. Disperse Blue 14  
C.I. Disperse Blue 78  
C.I. Disperse Blue 110  
Disperse Blue 14  
Duranol Brilliant Blue G  
Resiren Blue TB  
Serisol Brilliant Blue G  
Setacyl Blue BS  
Supracet Fast Blue 2G  
Disperse Blue 78  
Solvent Blue 78  
Teraprint Blue R  
1,4-Bis(methylamino)-9,10-anthracenedione  
1,4-Bis(N-methylamino)anthraquinone  
C.I. Solvent Blue 78  
C.I. Solvent Blue 93  
Diaresin Blue K  
Disperse Blue 110  
Macrolex Blue FR  
NSC 86161  
Solvent Blue 93  
1,4-bis(N-methylamino)anthra-9,10-quinone

**Inchi:**

InChI=1S/C16H14N2O2/c1-17-11-7-8-12(18-2)14-13(11)15(19)9-5-3-4-6-10(9)16(14)20/

**InchiKey:**

QOSTVEDABRQTSU-UHFFFAOYSA-N

**Formula:**

C16H14N2O2

**SMILES:**

CNc1ccc(NC)c2c1C(=O)c1cccc1C2=O

**Mol. weight [g/mol]:**

266.29

**CAS:**

2475-44-7

# Physical Properties

Property code	Value	Unit	Source
gf	284.30	kJ/mol	Joback Method
hf	-15.55	kJ/mol	Joback Method
hfus	32.10	kJ/mol	Joback Method
hvap	79.83	kJ/mol	Joback Method
log10ws	-3.65		Crippen Method
logp	2.545		Crippen Method
mcvol	201.020	ml/mol	McGowan Method
pc	2718.33	kPa	Joback Method
tb	881.88	K	Joback Method
tc	1137.33	K	Joback Method
tf	640.46	K	Joback Method
vc	0.765	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	606.42	J/mol×K	881.88	Joback Method
cpg	619.22	J/mol×K	924.46	Joback Method
cpg	630.78	J/mol×K	967.03	Joback Method
cpg	641.14	J/mol×K	1009.61	Joback Method
cpg	650.34	J/mol×K	1052.18	Joback Method
cpg	658.42	J/mol×K	1094.76	Joback Method
cpg	665.41	J/mol×K	1137.33	Joback Method
hsubt	151.80 ± 3.90	kJ/mol	399.00	NIST Webbook

# Sources

**NIST Webbook:**

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C2475447&Units=SI>

**Crippen Method:**

<http://pubs.acs.org/doi/abs/10.1021/ci9903071>

**Crippen Method:**

[https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

**Joback Method:**

[https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

**McGowan Method:**

<http://link.springer.com/article/10.1007/BF02311772>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hsubt:</b>	Enthalpy of sublimation at a given temperature
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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