

9,10-Anthracenedione, 1,4-bis[(4-methylphenyl)amino]-

Other names:

Ahcoquinone Cyanine Green Base
Alizarine Cyanine Green Base
Alizarine Cyanine Green G Fat Soluble
Alizarine Green G Base
Amaplast Green OZ
Anthraquinone Green G Base
Anthraquinone, 1,4-bis(p-tolylamino)-
Anthraquinone, 1,4-di-p-toluidino-
Arlosol Green B
Arlosol Green BS
Arlosol Green BSS
Bis-1,4-p-tolylaminoanthrchinon
C.I. Solvent Green 3
C.I. 61565
C-Green 10
Cyanine Green G base
D and C Green No. 6
D&C Green 6
Fat Soluble Anthraquinone Green
Fat Soluble Green Anthraquinone
Green No. 202
Macro-lex Green 5B
Nitro Fast Green GB
Organol Fast Green J
Organol Green J
Quinazarin green
Quinizarin Green SS
Quinizarine Green Base
Solvent Green 3
Sudan Green 4B
Toyo Oriental Oil Blue G
Waxoline Green 6GFW
Waxoline Green G
1,4-Bis(p-toluidino)anthraquinone
1,4-Bis(p-tolylamine)anthraquinone
1,4-Di-(4'-toluidino)anthraquinone
1,4-Di-p-toluidinoanthraquinone
11091 Green
Anthraquinone, 1,4-(4,4'-ditoluidino)-
Anthraquinone, 1,4-bis(4'-toluidino)-

D&C Green No 6

NSC 84207

Anthraquinone, 1,4-bis(4,4'-ditoluidino)-

1,4-bis(p-tolylamino)anthraquinone

Inchi:

InChI=1S/C28H22N2O2/c1-17-7-11-19(12-8-17)29-23-15-16-24(30-20-13-9-18(2)10-14-2

InchiKey:

TVRGPOFMYCMNRB-UHFFFAOYSA-N

Formula:

C28H22N2O2

SMILES:

Cc1ccc(Nc2ccc(Nc3ccc(C)cc3)c3c2C(=O)c2cccc2C3=O)cc1

Mol. weight [g/mol]:

418.49

CAS:

128-80-3

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | 590.90 | kJ/mol | Joback Method |
| hf | 186.89 | kJ/mol | Joback Method |
| hfus | 50.49 | kJ/mol | Joback Method |
| hvap | 112.41 | kJ/mol | Joback Method |
| log10ws | -8.20 | | Crippen Method |
| logp | 6.566 | | Crippen Method |
| mcvol | 322.580 | ml/mol | McGowan Method |
| pc | 1682.41 | kPa | Joback Method |
| tb | 1219.76 | K | Joback Method |
| tc | 1505.33 | K | Joback Method |
| tf | 853.58 | K | Joback Method |
| vc | 1.222 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1075.51 | J/molxK | 1219.76 | Joback Method |
| cpg | 1084.04 | J/molxK | 1267.36 | Joback Method |
| cpg | 1091.25 | J/molxK | 1314.95 | Joback Method |
| cpg | 1097.30 | J/molxK | 1362.55 | Joback Method |
| cpg | 1102.33 | J/molxK | 1410.14 | Joback Method |
| cpg | 1106.49 | J/molxK | 1457.74 | Joback Method |
| cpg | 1109.92 | J/molxK | 1505.33 | Joback Method |

Sources

| | |
|------------------------|---|
| 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=C128803&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

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 |
| h vap: | 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 |

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