

1H-Pyrrole-2,5-dione, 1,1'-(methylenedi-4,1-phenylene)bis-

Other names:

Bismaleimide S
p,p'-Dimaleimidodiphenylmethane
p,p'-Methylenebis(N-phenylmaleimide)
Bis(p-maleimidophenyl)methane
Bis(4-maleimidophenyl)methane
Bismaleimide, 4,4'-diphenylmethane
Diphenylmethanebismaleimide
Maleimide, N,N'-(methylenedi-p-phenylene)di-
Methylenedi-p-phenylene-N,N'-bismaleimide
N,N'-(Methylenedi-p-phenylene)dimaleimide
N,N'-(Methylenedi-4,1-phenylene)bismaleimide
N,N'-p,p'-Diphenylmethanebismaleimide
N,N'-Bismaleimido-4,4'-diphenylmethane
N,N'-4,4'-Diaminodiphenylmethanebismaleimide
N,N'-4,4'-Diphenylmethanebismaleimide
4,4'-(N,N'-Bismaleimido)diphenylmethane
4,4'-Biphenylmethanebismaleimide
4,4'-Bis(maleimido)diphenylmethane
4,4'-Dimaleimidodiphenylmethane
4,4'-Diphenylmethanebismaleimide
4,4'-Diphenylmethanedimaleimide
4,4'-Methylenebis(phenylmaleimide)
4,4'-Methylenebis(N-phenylenemaleimide)
4,4'-Methylenebis(N-phenylmaleimide)
4,4'-Methylenedianiline bismaleimide
p,p'-Bis(N-maleimidophenyl)methane
4,4'-Bis(maleimidophenyl)methane
NSC 44754
XU 292A

1,1'-(methylenedi-p-phenylene)bismaleimide

Inchi:

InChI=1S/C21H14N2O4/c24-18-9-10-19(25)22(18)16-5-1-14(2-6-16)13-15-3-7-17(8-4-15

InchiKey:

XQUPVDVFXZDTLT-UHFFFAOYSA-N

Formula:

C21H14N2O4

SMILES:

O=C1C=CC(=O)N1c1ccc(Cc2ccc(N3C(=O)C=CC3=O)cc2)cc1

Mol. weight [g/mol]:

358.35

CAS:

13676-54-5

Physical Properties

Property code	Value	Unit	Source
log10ws	-3.66		Crippen Method
logp	2.136		Crippen Method
mcvol	255.150	ml/mol	McGowan Method
tf	430.95 ± 0.10	K	NIST Webbook
tf	430.90 ± 2.00	K	NIST Webbook
tf	430.95 ± 0.10	K	NIST Webbook
tf	430.90 ± 2.00	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	118.00	J/mol×K	298.00	NIST Webbook
hfust	18.22	kJ/mol	430.90	NIST Webbook
hfust	18.22	kJ/mol	430.90	NIST Webbook
sfust	42.30	J/mol×K	430.90	NIST Webbook
sfust	42.30	J/mol×K	430.90	NIST Webbook

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C13676545&Units=SI

Legend

cps:	Solid phase heat capacity
hfust:	Enthalpy of fusion at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient

mcvol: McGowan's characteristic volume
sfust: Entropy of fusion at a given temperature
tf: Normal melting (fusion) point

Latest version available from:

<https://www.cheméo.com/cid/70-179-6/1H-Pyrrole-2-5-dione-1-1-methylenedi-4-1-phenylene-bis.pdf>

Generated by Cheméo on 2025-12-05 20:46:52.601418873 +0000 UTC m=+4715810.131459527.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.