

1,5-DIAMINOANTHRAQUINONE

Other names:	9,10-Anthracenedione, 1,5-diamino- Anthraquinone, 1,5-diamino- C.I. Disperse Red II 1,5-Anthraquinonyldiamine 1,5-Daa 1,5-Diamino-9,10-anthraquinone 1,5-Diaminoanthrachinon NSC 63791 NSC 7213 Smoke Red F
Inchi:	InChI=1S/C14H10N2O2/c15-9-5-1-3-7-11(9)14(18)8-4-2-6-10(16)12(8)13(7)17/h1-6H,15
InchiKey:	VWBVCOPVKXNMMZ-UHFFFAOYSA-N
Formula:	C14H10N2O2
SMILES:	Nc1cccc2c1C(=O)c1cccc(N)c1C2=O
Mol. weight [g/mol]:	238.25

Physical Properties

Property code	Value	Unit	Source
hf	-85.93	kJ/mol	Cheméo Relay (1.0)
hfus	27.12	kJ/mol	Joback Method
ie	7.70	eV	Cheméo Relay (1.0)
log10ws	-3.93		Cheméo Relay (1.0)
logp	1.626		Crippen Method
mcvol	172.840	ml/mol	McGowan Method
tb	683.44	K	Cheméo Relay (1.0)
tf	525.39	K	Cheméo Relay (1.0)

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
hsubt	118.50 ± 4.80	kJ/mol	416.00	NIST Webbook

Sources

Cheméo Relay (1.0, beta):

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C129442&Units=SI>

Joback Method: https://en.wikipedia.org/wiki/Joback_method

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

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Cheméo Relay (1.0):

Legend

cpg:	Ideal gas heat capacity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hsubt:	Enthalpy of sublimation at a given temperature
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point

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