Benzamide, N-(9,10-dihydro-4-amino-9,10-dioxo-1antracenyl)-

Other names: Anthraquinone, 1-amino-4-benzamido-
Benzamide, N-(4-amino-1-anthraquinonyl)-
Benzamide, N-(4-amino-9,10-dihydro-9,10-dioxo-1-anthracehyl)-
Corinth Flour
N-(4-Aminoanthraquinonyl)benzamide
1-Amino-4-(benzoylamino)anthrachinon
1-Amino-4-benzamidoanthraquinone
1-Amino-4-benzoylaminoanthraquinone
4-Amino-1-(benzoylamino)anthraquinone
Benzamide, N-(9,10-dihydro-4-amino-9,10-dioxo-1antracenyl)-
NSC 13982
N-(4-amino-9,10-dihydro-9,10-dioxo-1-anthryl)benzamide

Inchi: InChI=1S/C21H14N2O3/c22-15-10-11-16(23-21(26)12-6-2-1-3-7-12)18-17(15)19(24)13-8

InchiKey: PXNNPGGYHAWDJW-UHFFFAOYSA-N

Formula: C21H14N2O3

SMILES: Nc1ccc(NC(=O)c2ccccc2)c2c1C(=O)c1ccccc1C2=O

Mol. weight [g/mol]: 342.35

Physical Properties

Property code	Value	Unit	Source
hfus	40.79	kJ/mol	Joback Method
ie	7.59	eV	Cheméo Relay (1.0)
logp	3.296		Crippen Method
mcvol	249.280	ml/mol	McGowan Method
tf	534.18	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	788.75	J/mol×K	1099.19	Joback Method
cpg	797.00	J/mol×K	1146.09	Joback Method
cpg	803.93	J/mol×K	1192.98	Joback Method
cpg	809.62	J/mol×K	1239.88	Joback Method
cpg	814.18	J/mol×K	1286.78	Joback Method

cpg	817.69	J/mol×K	1333.67	Joback Method
cpg	820.27	J/mol×K	1380.57	Joback Method

Sources

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):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C81469&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
hfus:	Enthalpy of fusion at standard conditions
ie:	Ionization energy
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tf:	Normal melting (fusion) point