

BENZENEACETIC ACID, 2-[(2,6-DICHLOROPHENYL)AMINO]-

Other names:	(2-((2,6-dichlorophenyl)amino)phenyl)acetic acid
	2-[(2,6-Dichlorophenyl)amino]benzeneacetic acid
	2-[(2,6-Dichlorophenyl)amino]benzoic acid (diclofenac acid)
	Acetic acid, (o-(2,6-dichloroanilino)phenyl)-
	Dichlofenac
	diclofenac
	diclofenac acid
Inchi:	InChI=1S/C14H11Cl2NO2/c15-10-5-3-6-11(16)14(10)17-12-7-2-1-4-9(12)8-13(18)19/h1-
InchiKey:	DCOPUUMXTXDBNB-UHFFFAOYSA-N
Formula:	C14H11Cl2NO2
SMILES:	O=C(O)Cc1ccccc1Nc1c(Cl)cccc1Cl
Mol. weight [g/mol]:	296.15

Physical Properties

Property code	Value	Unit	Source
hfus	38.11	kJ/mol	Joback Method
hsub	115.60 ± 1.30	kJ/mol	NIST Webbook
ie	7.45	eV	Cheméo Relay (1.0)
log10ws	-5.46		Aqueous Solubility Prediction Method
log10ws	-5.10		Aqueous and cosolvent solubility data for drug-like organic compounds
logp	4.364		Crippen Method
mcvol	202.500	ml/mol	McGowan Method
tf	436.53	K	Aqueous Solubility Prediction Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	527.01	J/mol×K	859.10	Joback Method
cpg	536.14	J/mol×K	897.81	Joback Method
cpg	544.47	J/mol×K	936.52	Joback Method
cpg	552.06	J/mol×K	975.23	Joback Method

cpg	558.96	J/mol×K	1013.94	Joback Method
cpg	565.23	J/mol×K	1052.64	Joback Method
cpg	570.92	J/mol×K	1091.35	Joback Method
hfus	40.40	kJ/mol	452.60	NIST Webbook
hfus	39.40	kJ/mol	454.20	NIST Webbook
hsub	114.70 ± 1.30	kJ/mol	339.00	NIST Webbook

Sources

Solubility Measurement of Diclofenac Acid in the Supercritical CO₂: Cheméo Relay (1.0): <https://www.doi.org/10.1021/je200012x>

Aqueous and cosolvent solubility data for drug-like organic compounds: Joback Method: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2751500/>
https://en.wikipedia.org/wiki/Joback_method

Solubilities of Organic Semiconductors and Nonsteroidal Anti-inflammatory Drugs in Supercritical CO₂: Joback Method: <https://www.doi.org/10.1021/acs.jced.8b00536>

Aqueous Solubility Prediction Method: Solvents: Measurement and Modeling With Hansen Solubility Parameter: McGowan Method: <http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDataset002.xlsx>

Solvents: Measurement and Modeling With Hansen Solubility Parameter: McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>

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

Cheméo Relay (1.0, beta):

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C15307865&Units=SI>

Legend

cpg:	Ideal gas heat capacity
hfus:	Enthalpy of fusion at standard conditions
hfus:	Enthalpy of fusion at a given temperature
hsub:	Enthalpy of sublimation at standard conditions
hsub:	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
tf:	Normal melting (fusion) point

Latest version available from:

<https://www.chemeo.com/cid/106-556-7/BENZENEACETIC-ACID-2-2-6-DICHLOROPHENYL-AMINO.pdf>

Generated by Cheméo on 2026-07-21 18:13:35.63168582 +0000 UTC m=+168711.473571197.

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