

Alclofenac

Other names:

3-Chloro-4-(2-propenyloxy)benzeneacetic acid
Acetic acid, [4-(allyloxy)-3-chlorophenyl]-
Alclophenac
Allopydin
Argun
Benzeneacetic acid, 3-chloro-4-(2-propenyloxy)-
Epinal
Kyselina 4-allyloxy-3-chlorofenyloctova
MY 101
Medifenac
Mervan
Neosten
Neoston
Prinalgin
Reufenac
W 7320
Zumaryl

[3-Chloro-4-(allyloxy)phenyl]acetic acid

[4-(Allyloxy)-3-chlorophenyl]acetic acid

Inchi: InChI=1S/C11H11ClO3/c1-2-5-15-10-4-3-8(6-9(10)12)7-11(13)14/h2-4,6H,1,5,7H2,(H,13)

InchiKey: ARHWPKZXBHOEEE-UHFFFAOYSA-N

Formula: C11H11ClO3

SMILES: C=CCOc1ccc(CC(=O)O)cc1Cl

Mol. weight [g/mol]: 226.66

CAS: 22131-79-9

Physical Properties

Property code	Value	Unit	Source
gf	-159.94	kJ/mol	Joback Method
hf	-344.12	kJ/mol	Joback Method
hfus	27.30	kJ/mol	Joback Method
hvap	73.23	kJ/mol	Joback Method
log10ws	-3.12		Aqueous and cosolvent solubility data for drug-like organic compounds
logp	2.532		Crippen Method
mcvol	163.340	ml/mol	McGowan Method

pc	2986.06	kPa	Joback Method
rinpol	1837.00		NIST Webbook
tb	690.30	K	Joback Method
tc	895.12	K	Joback Method
tf	426.33	K	Joback Method
vc	0.617	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	398.60	J/mol×K	690.30	Joback Method
cpg	408.64	J/mol×K	724.44	Joback Method
cpg	418.06	J/mol×K	758.57	Joback Method
cpg	426.86	J/mol×K	792.71	Joback Method
cpg	435.07	J/mol×K	826.85	Joback Method
cpg	442.71	J/mol×K	860.98	Joback Method
cpg	449.78	J/mol×K	895.12	Joback Method
dvisc	0.0011220	Paxs	426.33	Joback Method
dvisc	0.0005239	Paxs	470.32	Joback Method
dvisc	0.0002786	Paxs	514.32	Joback Method
dvisc	0.0001637	Paxs	558.32	Joback Method
dvisc	0.0001040	Paxs	602.31	Joback Method
dvisc	0.0000702	Paxs	646.31	Joback Method
dvisc	0.0000499	Paxs	690.30	Joback Method

Sources

Aqueous and cosolvent solubility data for drug-like organic compounds: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2751500/>
McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C22131799&Units=SI>

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

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

Legend

cpg: Ideal gas heat capacity

dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mccol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.cheméo.com/cid/32-388-6/Alclofenac.pdf>

Generated by Cheméo on 2024-04-26 06:31:55.348427696 +0000 UTC m=+16402364.269005023.

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