

2-[2,3-dichloro-4-(2-methylidenebutanoyl)phenoxy]acetic acid

InChI: InChI=1S/C13H12Cl2O4/c1-3-7(2)13(18)8-4-5-9(12(15)11(8)14)19-6-10(16)17/h4-5H,2-3H2
InChIKey: AVOLMBLBETYQHX-UHFFFAOYSA-N
Formula: C13H12Cl2O4
SMILES: C=C(CC)C(=O)c1ccc(OCC(=O)O)c(Cl)c1Cl
Mol. weight [g/mol]: 303.14
CAS: 58-54-8

Physical Properties

Property code	Value	Unit	Source
hfus	41.03	kJ/mol	Joback Method
log10ws	-3.99		Cheméo Relay (1.0)
logp	3.606		Crippen Method
mcvol	205.330	ml/mol	McGowan Method
tf	395.65	K	Jean-Claude Bradley Open Melting Point Dataset (2014, CC0)

Correlations

Information	Value
Property code	cpg
Equation	$Y = A + B \cdot T + C \cdot T^2 + D \cdot T^3 + E \cdot T.$
Y unit	J/mol×K
Coeff. A	6.06220e+01
Coeff. B	9.34520e-01
Coeff. C	-5.22380e-04
Coeff. D	9.56600e-08
Coeff. E	0.00000e+00
Basis	predicted
Temperature range (K), min.	273.00
Temperature range (K), max.	1000.00

Sources

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):	
Cheméo Relay (1.0, beta):	
Jean-Claude Bradley Open Melting Point Dataset (2014, CC0):	https://figshare.com/articles/Jean_Claude_Bradley_Open_Melting_Point_Dataset/1031637

Legend

cpg:	Ideal gas heat capacity
hfus:	Enthalpy of fusion at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tf:	Normal melting (fusion) point

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