

Dicamba

Other names:	2,5-Dichloro-6-methoxybenzoic acid 2-Methoxy-3,6-dichlorobenzoic acid 3,6-Dichloor-2-methoxy-benzoeizuur 3,6-Dichlor-3-methoxy-benzoesaure 3,6-Dichloro-2-methoxybenzoic acid 3,6-Dichloro-o-anisic acid Acido (3,6-dicloro-2-metossi)-benzoico Banlen Banvel Banvel 480 Banvel 70WP Banvel CST Banvel II herbicide Banvel SGF Banvel herbicide Benzoic acid, 3,6-dichloro-2-methoxy- Brush buster Compound B dicamba Dianat Dianate Kyselina 3,6-dichlor-2-methoxybenzoova MDBA Mediben Vanquish Velsicol 58-CS-11 Velsicol Compound "R" Velsicol compound R o-Anisic acid, 3,6-dichloro-
Inchi:	InChI=1S/C8H6Cl2O3/c1-13-7-5(10)3-2-4(9)6(7)8(11)12/h2-3H,1H3,(H,11,12)
InchiKey:	IWEDIXLBFLAXBO-UHFFFAOYSA-N
Formula:	C8H6Cl2O3
SMILES:	COc1c(Cl)ccc(Cl)c1C(=O)O
Mol. weight [g/mol]:	221.04
CAS:	1918-00-9

Physical Properties

Property code	Value	Unit	Source
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gf	-294.60		kJ/mol	Joback Method
hf	-434.84		kJ/mol	Joback Method
hfus	24.62		kJ/mol	Joback Method
hvap	72.27		kJ/mol	Joback Method
log10ws	-1.70			Aqueous Solubility Prediction Method
logp	2.700			Crippen Method
mcvol	137.610		ml/mol	McGowan Method
pc	3736.23		kPa	Joback Method
rinpole	1617.00			NIST Webbook
rinpole	1617.00			NIST Webbook
tb	667.39		K	Joback Method
tc	881.82		K	Joback Method
tf	386.50 ± 0.10		K	NIST Webbook
tf	387.23 ± 0.20		K	NIST Webbook
vc	0.516		m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	333.53	J/molxK	881.82	Joback Method
cpg	328.39	J/molxK	846.08	Joback Method
cpg	322.77	J/molxK	810.35	Joback Method
cpg	316.68	J/molxK	774.61	Joback Method
cpg	310.11	J/molxK	738.87	Joback Method
cpg	303.07	J/molxK	703.13	Joback Method
cpg	295.55	J/molxK	667.39	Joback Method
dvisc	0.0009357	Paxs	436.72	Joback Method
dvisc	0.0000648	Paxs	667.39	Joback Method
dvisc	0.0000883	Paxs	628.94	Joback Method
dvisc	0.0001251	Paxs	590.50	Joback Method
dvisc	0.0001863	Paxs	552.06	Joback Method
dvisc	0.0002944	Paxs	513.61	Joback Method
dvisc	0.0005008	Paxs	475.17	Joback Method
hfust	22.90	kJ/mol	386.70	NIST Webbook

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1918009&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
Aqueous Solubility Prediction Method:	http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa

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
hfust:	Enthalpy of fusion at a given temperature
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpolar:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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