Acetic acid, (2-naphthalenyloxy)-

Other names:	Acetic acid, (2-naphthyloxy)-
	«beta»-Naphthoxyacetic acid
	«beta»-Naphthyloxyacetic acid
	(«beta»-Naphthalenyloxy)acetic acid
	Betoxon
	Gerlach 1396
	Naphthoxyacetic acid
	NOXA
	O-(2-Naphthyl)glycolic acid
	2-Naphthoxyacetic acid
	2-Naphthyloxyacetic acid
	2-NOXA
	(2-Naphthloxy)acetic acid
	Bnoa
	Phyomone
	(beta-Naphthalenyloxy)acetic acid
	(beta-Naphthyloxy)acetic acid
	(2-Naphthalenyloxy)acetic acid
	Betapal
	Betokson
	Betokson super
	Acetic acid, 2-(2-naphthalenyloxy)-
	NSC 2070
Inchi:	InChI=1S/C12H10O3/c13-12(14)8-15-11-6-5-9-3-1-2-4-10(9)7-11/h1-7H,8H2,(H,13,14)
InchiKey:	RZCJYMOBWVJQGV-UHFFFAOYSA-N
Formula:	C12H10O3
SMILES:	O=C(O)COc1ccc2ccccc2c1
Mol. weight [g/mol]:	202.21
CAS:	120-23-0

Physical Properties

Property code	Value	Unit	Source
gf	-111.15	kJ/mol	Joback Method
hf	-271.91	kJ/mol	Joback Method
hfus	24.38	kJ/mol	Joback Method
hvap	72.72	kJ/mol	Joback Method

log10ws	-2.91		Crippen Method
logp	2.303		Crippen Method
mcvol	150.030	ml/mol	McGowan Method
pc	3581.35	kPa	Joback Method
tb	693.07	K	Joback Method
tc	909.70	K	Joback Method
tf	429.40 ± 0.20	K	NIST Webbook
vc	0.565	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	383.81	J/mol×K	693.07	Joback Method
cpg	429.13	J/mol×K	873.60	Joback Method
cpg	421.36	J/mol×K	837.49	Joback Method
cpg	412.99	J/mol×K	801.39	Joback Method
cpg	403.97	J/mol×K	765.28	Joback Method
cpg	394.26	J/mol×K	729.18	Joback Method
cpg	436.35	J/mol×K	909.70	Joback Method
dvisc	0.0000805	Pa×s	693.07	Joback Method
dvisc	0.0001102	Pa×s	649.16	Joback Method
dvisc	0.0001578	Pa×s	605.25	Joback Method
dvisc	0.0002390	Pa×s	561.35	Joback Method
dvisc	0.0003884	Pa×s	517.44	Joback Method
dvisc	0.0006907	Pa×s	473.53	Joback Method
dvisc	0.0013818	Pa×s	429.62	Joback Method

Sources

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

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

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C120230&Units=SI

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

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
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume