

Nabumetone

Other names:	2-Butanone, 4-(6-methoxy-2-naphthalenyl)- 4-(6-Methoxy-2-naphthalenyl)-2-butanone 4-(6-Methoxy-2-naphthyl)-2-butanone 4-(6-Methoxy-2-naphyl)-2-butanone 4-(6-methoxynaphthalen-2-yl)butan-2-one Arthaxan BRL 147777 BRL-14777 Balmox Consolan Nabumeton Nabuser Relafen Relifen Relifex
Inchi:	InChI=1S/C15H16O2/c1-11(16)3-4-12-5-6-14-10-15(17-2)8-7-13(14)9-12/h5-10H,3-4H2,
InchiKey:	BLXXJMDCKKHKMKV-UHFFFAOYSA-N
Formula:	C15H16O2
SMILES:	<chem>COc1ccc2cc(CCC(C)=O)ccc2c1</chem>
Mol. weight [g/mol]:	228.29
CAS:	42924-53-8

Physical Properties

Property code	Value	Unit	Source
gf	41.30	kJ/mol	Joback Method
hf	-193.07	kJ/mol	Joback Method
hfus	27.68	kJ/mol	Joback Method
hvap	63.38	kJ/mol	Joback Method
log10ws	-1.46		Aqueous Solubility Prediction Method
logp	3.370		Crippen Method
mcvol	186.430	ml/mol	McGowan Method
pc	2342.82	kPa	Joback Method
rinpola	2103.00		NIST Webbook
tb	674.51	K	Joback Method
tc	897.40	K	Joback Method
tf	415.13	K	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	484.00	J/molxK	674.51	Joback Method
cpg	498.93	J/molxK	711.66	Joback Method
cpg	512.88	J/molxK	748.81	Joback Method
cpg	525.90	J/molxK	785.95	Joback Method
cpg	538.04	J/molxK	823.10	Joback Method
cpg	549.35	J/molxK	860.25	Joback Method
cpg	559.88	J/molxK	897.40	Joback Method
dvisc	0.0011670	Paxs	415.13	Joback Method
dvisc	0.0007887	Paxs	458.36	Joback Method
dvisc	0.0005703	Paxs	501.59	Joback Method
dvisc	0.0004341	Paxs	544.82	Joback Method
dvisc	0.0003440	Paxs	588.05	Joback Method
dvisc	0.0002814	Paxs	631.28	Joback Method
dvisc	0.0002362	Paxs	674.51	Joback Method

Sources

Aqueous Solubility Prediction Method: <http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa>

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

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C42924538&Units=SI>

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

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

h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀w_s:	Log10 of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mc_{vol}:	McGowan's characteristic volume
pc:	Critical Pressure
rin_{pol}:	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.chemeo.com/cid/19-279-2/Nabumetone.pdf>

Generated by Cheméo on 2024-04-29 00:33:41.393679316 +0000 UTC m=+16640070.314256638.

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