

dibenzoyl peroxide

Other names:	Abcure S-40-25
	Acne-Aid Cream
	Acnegel
	Akneroxid 5
	Akneroxid L
	Akneroxide L
	Asidopan
	Aztec BPO
	BPO
	BZF-60
	Benzac
	Benzac W
	Benzagel 10
	Benzaknen
	Benzaknew
	Benzoic acid, peroxide
	Benzol peroxide
	Benzoyl peroxyde
	Benzoylperoxid
	Brevoxyl
	Cadet
	Cadet BPO 78W
	Cadox
	Cadox 40E
	Cadox B
	Cadox BS
	Clear By Design
	Clearasil BP acne treatment
	Clearasil benzoyl peroxide lotion
	Cuticura acne cream
	Debroxide
	Dermoxyl
	Desanden
	Desquam E
	Dibenzoylperoxid
	Dibenzoylperoxyde
	Diphenylglyoxal peroxide
	Dry and Clear
	Duresthin 5
	Eloxyl

Epi-Clear
Fostex
G20
Garox
Incidol
Loroxide
Lucidol
Lucidol (peroxide)
Lucidol 75FP
Lucidol 78
Lucidol B 50
Lucidol G 20
Luperco
Luperco AA
Luperco AST
Luperox FL
Luzidol
Mytolac
NA 2085 (DOT)
NSC 675
Nayper B and BO
Nayper BO
Nericur
Norox bzp-250
Norox bzp-C-35
Novadelox
Nyper B
Nyper BMT
OXY WASH
OXY-10
Oxy 5
Oxy-L
Oxylite
Panoxyl
Perkadox 20S
Perossido di benzoile
Peroxide, dibenzoyl
Peroxyde de benzoyle
Peroxyderm
Peroxydex
Persa-Gel
Persadox
Preoxydex

Quinolone compound

Resdan Akne

Sanoxit

Superox

Theraderm

Topex

Triaz

UN 2085 (DOT)

UN 2086

UN 2088

Vanoxide

W 75

Xerac

Xerac BP 10

Xerac BP 5

acetoxyl

benoxyl

benzoperoxide

benzoyl peroxide

benzoyl superoxide

Inchi: InChI=1S/C14H10O4/c15-13(11-7-3-1-4-8-11)17-18-14(16)12-9-5-2-6-10-12/h1-10H

InchiKey: OMPJBNCRMGITSC-UHFFFAOYSA-N

Formula: C14H10O4

SMILES: O=C(OOC(=O)c1ccccc1)c1ccccc1

Mol. weight [g/mol]: 242.23

Physical Properties

Property code	Value	Unit	Source
af	0.7278		Cheméo Relay (1.0)
gf	-176.02	kJ/mol	Joback Method
hf	-265.33	kJ/mol	Cheméo Relay (1.0)
hfus	25.67	kJ/mol	Joback Method
hvap	100.67	kJ/mol	Cheméo Relay (1.0)
ie	8.96	eV	Cheméo Relay (1.0)
log10ws	-3.61		Cheméo Relay (1.0)
logp	2.615		Crippen Method
mcpvol	175.480	ml/mol	McGowan Method
pc	3059.17	kPa	Joback Method
tb	607.40	K	Cheméo Relay (1.0)
tc	864.13	K	Cheméo Relay (1.0)

tf	375.45	K	Cheméo Relay (1.0)
tt	377.75	K	Thermal behavior of benzoyl peroxide mixed with NaOH solution
vc	0.657	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	454.39	J/mol×K	725.66	Joback Method
cpg	467.35	J/mol×K	766.40	Joback Method
cpg	479.12	J/mol×K	807.15	Joback Method
cpg	489.73	J/mol×K	847.89	Joback Method
cpg	499.20	J/mol×K	888.64	Joback Method
cpg	507.58	J/mol×K	929.38	Joback Method
cpg	514.89	J/mol×K	970.13	Joback Method
dvisc	0.0009967	Pa×s	444.70	Joback Method
dvisc	0.0005919	Pa×s	491.53	Joback Method
dvisc	0.0003849	Pa×s	538.35	Joback Method
dvisc	0.0002681	Pa×s	585.18	Joback Method
dvisc	0.0001971	Pa×s	632.01	Joback Method
dvisc	0.0001511	Pa×s	678.83	Joback Method
dvisc	0.0001199	Pa×s	725.66	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
Thermal behavior of benzoyl peroxide mixed with NaOH solution:	https://www.doi.org/10.1016/j.tca.2018.10.003
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=B8001176&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

af:	Acentric Factor
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
ie:	Ionization energy
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
tt:	Triple Point Temperature
vc:	Critical Volume

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