Diacetylmorphine

Other names:

Morphinan-3,6-diol, 7,8-didehydro-4,5-epoxy-17-methyl- (5«alpha»,6«alpha»)-, diacetate (ester)

Morphinan-3,6«alpha»-diol, 7,8-didehydro-4,5«alpha»-epoxy-17-methyl-, diacetate (ester)

Acetomorfin

Acetomorphin

Diamorphine

Diaphorm

Eclorion

Eroina

Herolan

Morphacetin

Preza

Morphinan-3,6-diol, 7,8-didehydro-4,5-epoxy-17-methyl- (5«alpha»,6«alpha»)-, diacetate

Morphinan-3,6-«alpha»-diol, 7,8-didehydro-4,5-«alpha»-epoxy-17-methyl-, diacetate

Acetomorfine

Acetomorphine

Aspron

BOY

Diacephin

Diacetylmorfin

Diamorfina

Diasetielmorfien

Diasetilmorfin

Diasetylmorfiimi

Diazetylmorphine

7,8-Dihydro-4,5-«alpha»-epoxy-17-methylmorphinan-3,6-«alpha»-diol diacetate

Dooje

Eroin

Hairy

Harry

Heroien

Heroiin

Horse

Iroini

Joy powder

Morphine diacetate

SCOT

White stuff

3,6-Diacetylmorphine

(5«alpha»,6«alpha»)-7,8-Didehydro-4,5-epoxy-17-methylmorphinan-3,6-diol diacetate (ester)

China white

	Heroin
	Morphine, diacetyl-
	3,6-O-Diacetylmorphine
	Diacetylmorphine, HFB
	"H"
	Ieroin
	Herperal
	O,O'-diacetylmorphine
	Diacetylmorphine (heroin)
Inchi:	InChI=1S/C21H23NO5/c1-11(23)25-16-6-4-13-10-15-14-5-7-17(26-12(2)24)20-21(14,8-9
InchiKey:	GVGLGOZIDCSQPN-UHFFFAOYSA-N
Formula:	C21H23NO5
SMILES:	CC(=O)Oc1ccc2c3c1OC1C(OC(C)=O)C=CC4C(C2)N(C)CCC341
Mol. weight [g/mol]:	369.41
CAS:	561-27-3

Physical Properties

Property code	Value	Unit	Source
log10ws	-3.49		Crippen Method
logp	1.989		Crippen Method
mcvol	265.980	ml/mol	McGowan Method
rinpol	2607.00		NIST Webbook
rinpol	2638.00		NIST Webbook
rinpol	2630.00		NIST Webbook
rinpol	2630.00		NIST Webbook
rinpol	2600.00		NIST Webbook
rinpol	2660.00		NIST Webbook
rinpol	2655.00		NIST Webbook
rinpol	2615.00		NIST Webbook
rinpol	2602.00		NIST Webbook
rinpol	2605.00		NIST Webbook
rinpol	2602.00		NIST Webbook
rinpol	2581.00		NIST Webbook
rinpol	2620.00		NIST Webbook
rinpol	2635.00		NIST Webbook
rinpol	2614.00		NIST Webbook
rinpol	2607.00		NIST Webbook
rinpol	2598.00		NIST Webbook
rinpol	2614.00		NIST Webbook
rinpol	2615.00		NIST Webbook

rinpol	2581.00	NIST Webbook
rinpol	2605.00	NIST Webbook
rinpol	2605.00	NIST Webbook
rinpol	2590.00	NIST Webbook
rinpol	2635.00	NIST Webbook
rinpol	2620.00	NIST Webbook
rinpol	2620.00	NIST Webbook
rinpol	2625.00	NIST Webbook
rinpol	2607.00	NIST Webbook
rinpol	2608.00	NIST Webbook
rinpol	2611.00	NIST Webbook
rinpol	2607.00	NIST Webbook
rinpol	2607.00	NIST Webbook
rinpol	2609.00	NIST Webbook
rinpol	2611.00	NIST Webbook
rinpol	2607.00	NIST Webbook
rinpol	2615.00	NIST Webbook
rinpol	2581.00	NIST Webbook
rinpol	2639.00	NIST Webbook
rinpol	2614.00	NIST Webbook
rinpol	2630.00	NIST Webbook
rinpol	2625.00	NIST Webbook
rinpol	2643.00	NIST Webbook
rinpol	2581.00	NIST Webbook
rinpol	2602.00	NIST Webbook
rinpol	2635.00	NIST Webbook
rinpol	2607.00	NIST Webbook
rinpol	2639.00	NIST Webbook
rinpol	2607.00	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hsubt	144.50 ± 4.00	kJ/mol	331.50	NIST Webbook

Sources

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

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C561273&Units=SI

Legend

hsubt:	Enthalpy of sublimation at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
rinpol:	Non-polar retention indices