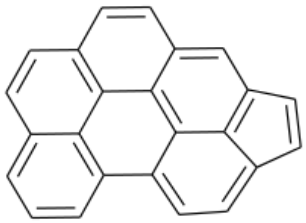
Benzo[ghi]cyclopenta[cd]perylene

InChI: InChI=1S/C24H12/c1-2-13-4-5-15-7-9-17-12-16-8-6-14-10-11-19-18(3-1)21(13)22(15)23(17)24(19)20(14)16/h1-12H
InChI Key: MUDPUADNICLBBZ-UHFFFAOYSA-N
Formula: C24H12
SMILES: c1cc2cc3ccc4ccc5cccc6c7ccc1c2c7c3c4c56
Molecular Weight: 300.35
CAS: 190-88-5



Physical Properties

Property	Value	Unit	Source
$\Delta_f G°$	838.08	kJ/mol	Joback Method
$\Delta_f H°_{gas}$	650.53	kJ/mol	Joback Method
$\Delta_{fus} H°$	41.06	kJ/mol	Joback Method
$\Delta_{vap} H°$	82.54	kJ/mol	Joback Method
$log P_{oct/wat}$	6.919		Crippen Method
P_c	2370.28	kPa	Joback Method
T_{boil}	890.88	K	Joback Method
T_c	1154.51	K	Joback Method
T_{fus}	664.30	K	Joback Method
V_c	0.893	m^3/kg-mol	Joback Method

Temperature Dependent Properties

Property	Value	Unit	Temperature (K)	Source
$C_{p,gas}$	625.52	J/mol×K	890.88	Joback Method
η	0.0313800	Pa×s	890.88	Joback Method

Sources

Joback Method: https://en.wikipedia.org/wiki/Joback_method
NIST Webbook: http://webbook.nist.gov/cgi/inchi/InChI=1S/C24H12/c1-2-13-4-5-15-7-9-17-12-16-8-6-14-10-11-19-18(3-1)21(13)22(15)23(17)24(19)20(14)16/h1-12H
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

$\mathbf{C_{p,gas}}$: Ideal gas heat capacity (J/mol×K).
η: Dynamic viscosity (Pa×s).
$\Delta_f\mathbf{G°}$: Standard Gibbs free energy of formation (kJ/mol).
$\Delta_f\mathbf{H°_{gas}}$: Enthalpy of formation at standard conditions (kJ/mol).
$\Delta_{fus}\mathbf{H°}$: Enthalpy of fusion at standard conditions (kJ/mol).
$\Delta_{vap}\mathbf{H°}$: Enthalpy of vaporization at standard conditions (kJ/mol).
$\boldsymbol{log}\mathbf{P_{oct/wat}}$: Octanol/Water partition coefficient .
$\mathbf{P_c}$: Critical Pressure (kPa).
$\mathbf{T_{boil}}$: Normal Boiling Point Temperature (K).
$\mathbf{T_c}$: Critical Temperature (K).
$\mathbf{T_{fus}}$: Normal melting (fusion) point (K).
$\mathbf{V_c}$: Critical Volume (m^3/kg-mol).