

Dortmund Data Bank

Explorer Version

Accessing Benchmark Database Data

Data from the paper "Benchmark Database Containing Binary-System-High-Quality-Certified Data for Cross-Comparing Thermodynamic Models and Assessing their Accuracy".
Further information can be found at Ind. Eng. Chem. Res. 2020, 59, 33, 14981–15027



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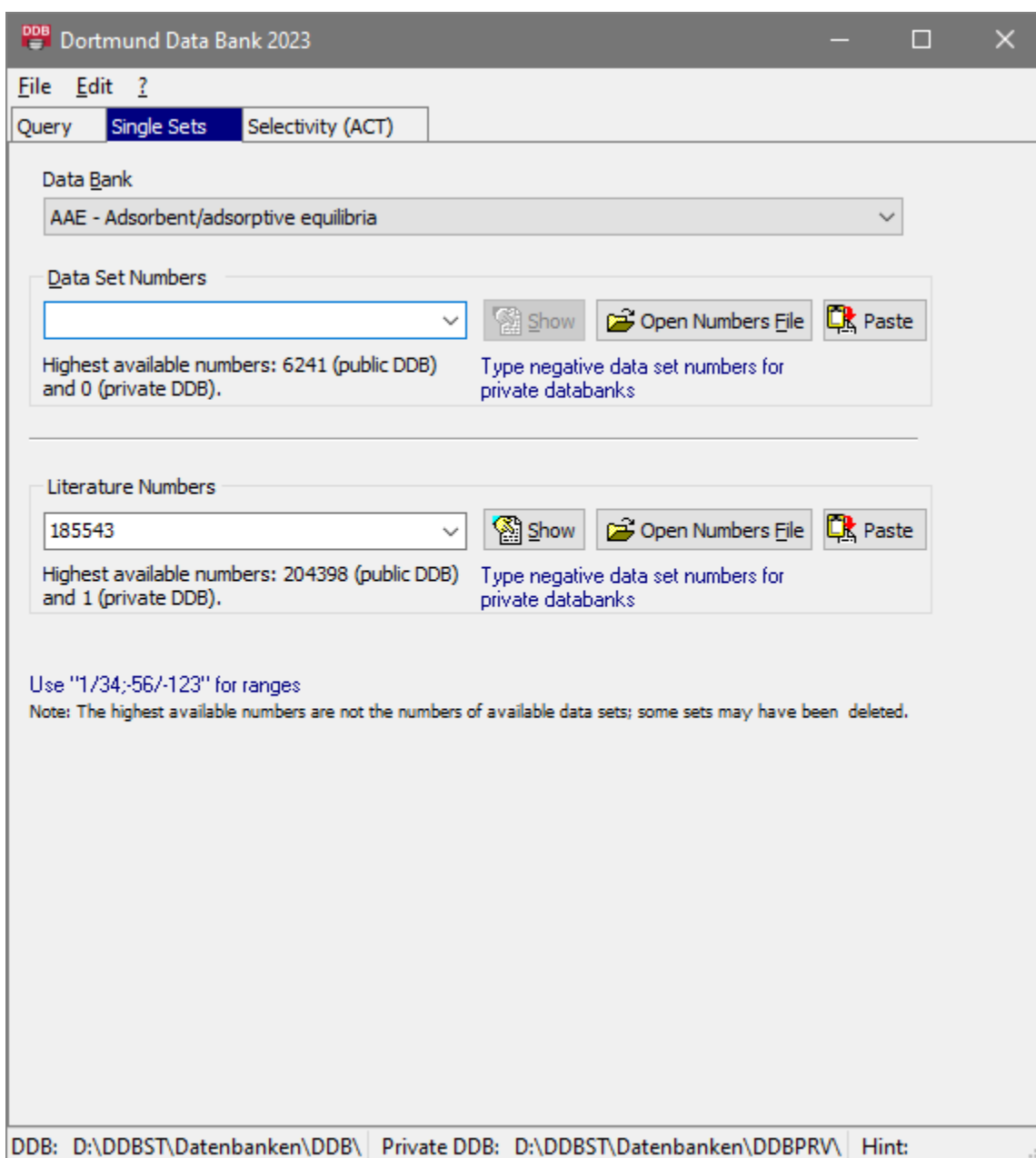
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How to access the Benchmark Database data

The Data from the paper "Benchmark Database Containing Binary-System-High-Quality-Certified Data for Cross-Comparing Thermodynamic Models and Assessing their Accuracy" can be accessed by performing a search for literature number 185543 via the program *Dortmund Data Bank* as shown on the screenshot below:



A click on *Show* opens a new window with all data related to the publication.

Set No.	Source	Pts.	Comp's	#DDB	Tmin [K]	Tmax [K]	Pmin [kPa]	Pmax [kPa]	Comment	Quality	Pub
[123 0 0]	DDB	1	2	C4 Acetone C110 Methanol	329 (const.)		103 (const.)		homPmax		197
[304 0 0]	DDB	1	2	C138 Phenol C174 Water	340 (const.)		27 (const.)		homPmaxHisGap		196
[397 0 0]	DDB	1	2	C4 Acetone C110 Methanol	298 (const.)		31 (const.)		homPmax		198
[8002 0 0]	DDB	1	2	C4 Acetone C110 Methanol	318 (const.)		69 (const.)		homPmax		196
[8003 0 0]	DDB	1	2	C4 Acetone C110 Methanol	308 (const.)		47 (const.)		homPmax		196

These are in detail:

Databank	Sets	Points	References	DDB Description
AZD	138	138	87	Azeotropic/zeotropic information
CPE	88	1208	50	Excess heat capacities
CRI	157	1221	125	Critical data of mixtures
HE	561	8574	235	Heats of mixing
HPV	1046	11216	284	Vapor-liquid equilibria (normal boiling point of a component below 0 °C)
LLE	22	282	20	Liquid-liquid equilibria
VLE	615	10602	329	Vapor-liquid equilibria (normal boiling points of all components above 0 °C)
Sum	2627	33241	(1130)	

Final Comments

The explorer version is a limited version of the Dortmund Data Bank and the DDB software package and is intended only for test purposes and to show the possibilities of the full versions. In case of any questions, comments or requests please don't hesitate to get in touch with us using support@ddbst.com or the contact form on our web site www.ddbst.com.